Acer AT1921/22
Service Guide

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Conventions

The following conventions are used in this manual:

Screen messages	Denotes actual messages that appear on screen
Note	Gives bits and pieces of additional information related to the current topic.
Warning	Alerts you to any damage that might result from doing or not doing specific actions.
Caution	Gives precautionary measures to avoid possible hardware or software problems.
Important	Reminds you to do specific actions relevant to the accomplishment of procedures.

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Preface

Before using this information and the product it supports, please read the following general information.

1. this Service Guide provides you with all technical information relating to the BASICCONFIGURATION decided for Acer's "global" product offering. To better fit local market requirements and enhance product competitiveness, your regional office MAY have decided to extend the functionality of a machine (e.g. add-on card, modem, or extra memory capability). These LOCALIZED FEATURES will NOT be covered in this generic service guide. In such cases, please contact your regional offices or the responsible personnel/channel to provide you with further technical details.

2. please not WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel. If, for whatever reason, a part number change is made, it will not be noted in the printed Service Guide, for ACER-AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code to those given in the FRU list of this printed Service Guide. You MUST use the list provided by your regional Acer office to order FRU parts for repair and Service of customer machines.

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WARNING: (FOR FCC CERTIFIED MODELS)

NOTE: this equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, Which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

NOTICE:

1. The changes or modifications not expressly approved by the party responsible for compliance could void

the user's authority to operate the equipment.

2. Shielded interface cables and AC power cord, if any, must be used in order to comply with the emission limits.
3. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification to this equipment. It is the responsibility of the user to correct such interference.

As an ENERGY STAR® Partner our company has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

WARNING:

To prevent fire or chock hazard, do not expose the monitor to rain or moisture. Dangerously high voltages are present inside the monitor. Do not open the cabinet. Refer servicing to qualified personnel only.

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PRECAUTIONS

- Do not use the monitor near water, e.g. near a bathtub, washbowl, kitchen sink, laundry tub, Swimming pool or in a wet basement.

- Do not place the monitor on an unstable trolley, stand, or table. If the monitor falls, it can injure a person and cause serious damage to the appliance. Use only a trolley or stand recommended by the manufacture or sold with the monitor. If you mount the monitor on a wall or shelf, use a mounting kit approved by the manufacture and follow the kit instructions.
- Slots and openings in the back and bottom of the cabinet area provided for ventilation. To ensure reliable operation of the monitor and to protect it from overheating, be sure these openings are not blocked or covered. Do not place the monitor on a bed, sofa, rug or similar surface. Do not place the monitor near or over a radiator or heat register. Do not place the monitor in a bookcase or cabinet unless proper ventilation is provided.
- The monitor should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
- The monitor is equipped with a three-pronged grounded plug, a plug with a third (grounding) pin. This plug will fit only into a grounded power outlet as a safety feature. If your outlet does not accommodate the three-wire plug, have an electrician install the correct outlet, or use an adapter to ground the appliance safely. Do not defeat the safety purpose of the grounded plug.
- Unplug the unit during a lightning storm or when it will not be used for long periods of time. This will protect the monitor from damage due to power surges.
- Do not overload power strips and extension cords. Overloading can result in fire or electric shock.
- Never push any object into the slot on the monitor cabinet. It could short circuit parts causing a fire or electric shock. Never spill liquids on the monitor.
- Do not attempt to service the monitor yourself; opening or removing covers can expose you to dangerous voltages and other hazards. Please refer all servicing to qualified service personnel.
- To ensure satisfactory operation, use the monitor only with UL listed computers which have appropriate configured receptacles marked between 100-240V AC, Min. 3.5A.
- The wall socket shall be installed near the equipment and shall be easily accessible.
- For use only with the attached power adapter (output 12V DC) which have UL,CSA listed license

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SPECIAL NOTES ON LCD MONITORS

The following symptoms are normal with LCD monitor and do not indicate a problem.

NOTES

- Due to the nature of the fluorescent light, the screen may flicker during initial use. Turn off the Power Switch and then turn it on again to make sure the flicker disappears.
- You may find slightly uneven brightness in the screen depending on the desktop pattern you use.
- The LCD screen has effective pixels of 99.99% or more. It may include blemishes of 0.01% or less such as a missing pixel or a pixel lit all of the time.
- Due to the nature of the LCD screen, an afterimage of the previous screen may remain after switching the image, when the same image is displayed for hours. In this case, the screen is recovered slowly by changing the image or turning off the Power Switch for hours.

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Table of contents

Chapter 1 LCD TV FEATURE.....9

Chapter 2 OPERATING INSTRUTION 20

Chapter 3 MACHINE ASSEMBLY.....25

Chapter 4 TROBLE SHOOTING.....39

Chapter 5 CONNECTOR INFORMATION.....42

Chapter 6 FRU LIST.....43

Chapter 7 SCHEMATIC DIAGRAM 45

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Chapter 1

LCD TV Feature

TV System	Destination	Europe
	Color System	CCIR B/G, D/K, I and L/L'
	Sound System	Sound 1 and Sound 2
	Stereo System	NICAM and FM Stereo (A2)
	Channel System	Full frequency range from channel E2 (48.25 MHz) to channel E69 (855.25 MHz)
	Sub-Title	Teletext 100 pages
	RF-AFT	(+ / - 1.5MHz)
LCD Panel	Maximum Resolution	1440*900
	Panel Supplier	AUO: M190PW01_V0
	Lamp Quantity	CCFL*4
	Display Area	19" Wide Diagonal
	Display Color	16.7 M colors (RGB 6 bits+ HiFRC)
	Contrast Ratio	800:1 (Typical)600:1(Min)
	Brightness	300 cd / m*2 (Typical)
	Response Time	5 ms(Typ)
	View Angle	80°(L)/80°(R), 80°(U)/80°(D)
I / O Functions	HDMI	For Audio & Video
	RCA Jack *3	For Audio & Video
	Din Jack	For S-Video
	SCART*1	21 Pin for Video ,S-Video & RGB
	PH Jack	For TV Input (PAL system)
	Earphone Jack	For Audio Output
	SPDIF	For Audio output (I2S)
	3.5mm Stereo Jack	For PC Stereo Audio Input , Black color
	D-Sub-15	For VGA
Video Functions	Support PAL / NTSC / SECAM video format	
	Support 480 i , 480 p,720P,1080i format	
	Build in motion adaptive 3D digital Comb Filter	
	Build in Teletext Functions	

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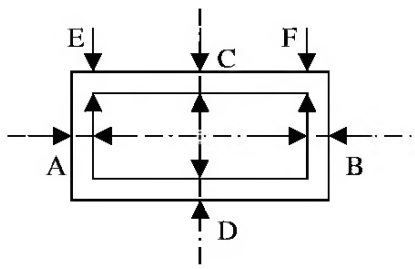
Input Signal	TV System	PAL and SECAM system Receivable
	Tuner	FQ1216-MK5
	VGA	Horizontal input frequency range : 30~71 KHz Vertical input frequency range : 50~85 Hz Maximum resolution : 1440*900
	Out of Range	When input signal is out of range or down scaling support ,the OSD will show "Out of Range "within 5 seconds and LED is green
	No Signal	When there is missing signal from selected input ,the OSD will show "No Signal "within 8 seconds and LED is green
Color Temperature	Standard	x=300 , y=310, Y>250cd / m*2(center)
	Warm	x=317 , y=327, Y>250cd / m*2(center)
	Cold	x=285 , y=293, Y>220cd / m*2(center)
Remote Controller	Key count	43 Keys
	Effective Distance	More than 5 m +45~-45degree
	Supplier	Panasonic
Local Control Key	7 Keys	Power, Left, Right, Up, Down, Menu, Select
Display Area & Tilt	Display Area:	19W inches diagonal
	H-Phase:	A-B Less than 1.5mm
	V-Center:	C-D Less than 1.5mm
	Tilt:	E-F Less than 1mm
		
Audio	Speaker	Internal speaker. 5W*2 stereo, volume adjustable.
	Treble, Bass	(+ 6db)
	Frequency Response	100~15KHz with +/-3 db variation

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	THD(Total Harmonic D distortion)	Limited to 5 % at 2W (at 0.1~15 KHz)
OSD Capability	On screen display adjustment function	
ISP Functions	ISP (In System Programming) function available for revising driver easily.	
Power Source	Input Voltage	90 ~ 264 V , 47 ~ 63 Hz
	Input Current	0.6~1.5 A
	Max. Power	58 Watts(not support Energy Star max power SPEC)
	PC saving Power	2Watts Max
	Stand-By Power(AV,TV)	1 Watts Max.
Mechanical	VESA Mount	100*100 mm

Input & Output Signal Specification

CVBS Input	Type	Analog
	Polarity	Positive
	Level	1Vp-p (with Sync.)
	Impedance	75Ω± 5%
	Interface	RCA jack, Yellow color
S-Video Input	Type	Analog
	Polarity	Positive
	Level	Y : 1Vp-p (with Sync.) , C : 0.286Vp-p
	Impedance	75Ω± 5%
	Interface	DIN Jack
SCART Input	Type	Analog
	Polarity	Positive
	Impedance	75Ω± 5%
	Interface	21 Pin Euro-SCART
Audio Input	Type	Stereo R/L Channels
	Level	500mVrms
	Impedance	More than 22kΩ
	Interface	RCA Jack
	Right channel	Red color.
	Left Channel	White color
PC Stereo Input	Type	Stereo R/L Channels
	Level	1Vrms

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	Impedance	More than 22kΩ
	Interface	3.5mm Stereo Jack , Black color
	Type	Stereo R/L Channels
	Level	40mW rms/per Channel(typ.) for 32 ohm earphone
	Impedance	32 ohm
Headphone Output	Interface	3.5mm Stereo Jack
	Max. Audio output	5W + 5W (at 1.0Vp-p / 1kHZ input,10% THD max.)
	Sound Distortion	1% THD max. (at 250mW/1kHZ :)
	Speaker	5 W / 8 ohms
	Speaker Impedance	8 ohms at 1kHZ
	Residual Hum	500uW Max.(at Min. Volume :)
Built-in Speaker	Max. Hum	1000uW Max (at Max. Volume)
	Type	Stereo R/L Channels
	Level	400Vrms.
Audio Line Output	Interface	3.5mm Stereo Jack
	Input Impedance	75 ohms
	Frequency Range	48.25~855.25 MHz (PAL)
	Video S/N Ratio	45 d B (Typical)
RF Input	Audio S/N Ratio	63 d B (Typical)
		Level : Low = 0 to 0.8V, High = 2.0 to 5 V
		Polarity : Positive or Negative
	Sync	Impedance : 1 k ohm or higher
		Level : 0 to 700mV Positive
VGA Input	RGB Signal	Impedance : 75Ω± 5%
	1	Red Video
	2	Green Video
	3	Blue Video
	4	Ground
	5	Ground
	6	Red Ground
	7	Green Ground
	8	Blue Ground
	9	+5V (PC97)
	10	VGA-CONN(Sync GND)
	11	Ground
	12	SDA (DDC Data)
	13	Horizontal Sync
	14	Vertical Sync
D-Sub Pin Define	15	SCL (DDC Clock)

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PC Timing Mode

	Pixel	Hor. Freq.	Hor.	Vert. Freq.	Vertical	Standard	Format
	Format	(kHz)	Polarity	(Hz)	Polarity		
1	640*350	31.5		70		VGA	
2	720*400	31.47	-	70	+	VGA	
3	640*480	31.47	-	60	-	VGA	
4	640*480	35		66.7		MAC	
5	640*480	37.861	-	72	-	VESA	
6	640*480	37.5	-	75	-	VESA	
7	640*480	43.3	-	85	-	VESA	
8	800*600	35.156	-	56	+	VESA	
9	800*600	37.879	+	60	+	VESA	
10	800*600	48.077	+	72	+	VESA	
11	800*600	46.875	+	75	+	VESA	
12	800*600	53.674	+	85	+	VESA	
13	832*624	49.72		74.5		MAC	
14	1024*768	48.36		60		VESA	
15	1024*768	56.48		70		VESA	
16	1024*768	60.02		75		VESA	
17	1280*720	44.772	-	59.86	+	VESA	16:9
18	1280*720	56.456	-	74.78	+	VESA	16:9
19	1360*768	47.72	-	59.8	+	VESA	16:9
20	1360*768	60.288	-	74.89	+	VESA	16:9
21	1440*900	55.935	-	59.89	+	VESA	16:9
cancel	1440*900	70.635	-	74.98	+	VESA	16:9

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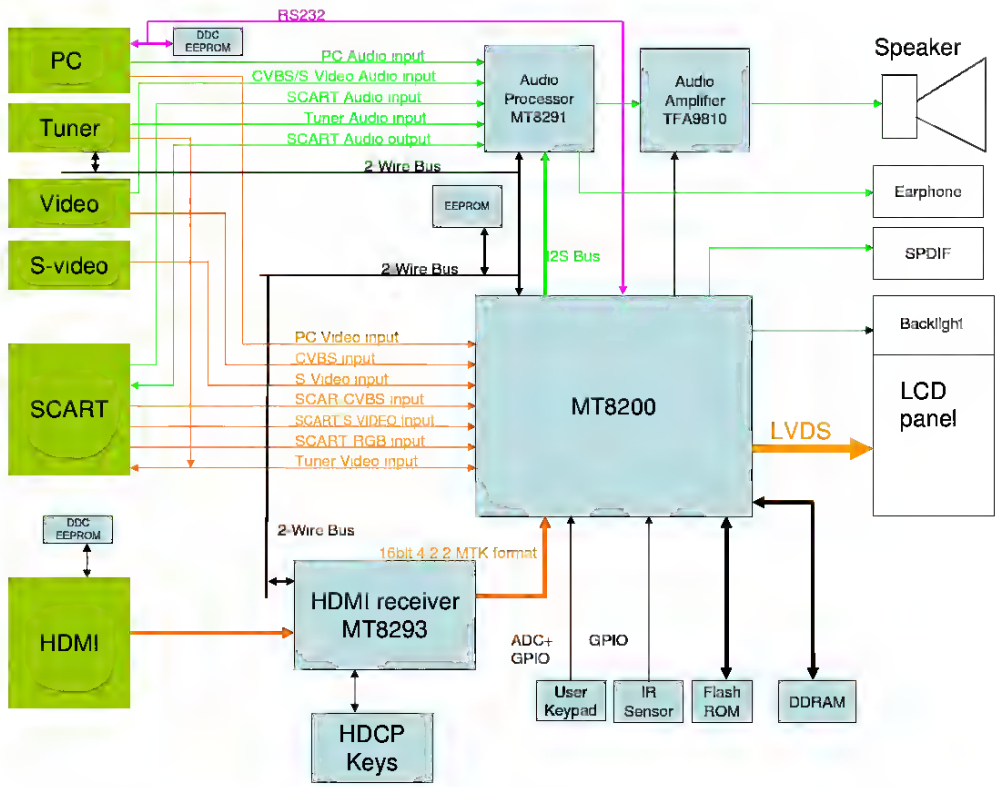
Monitor Block Diagram



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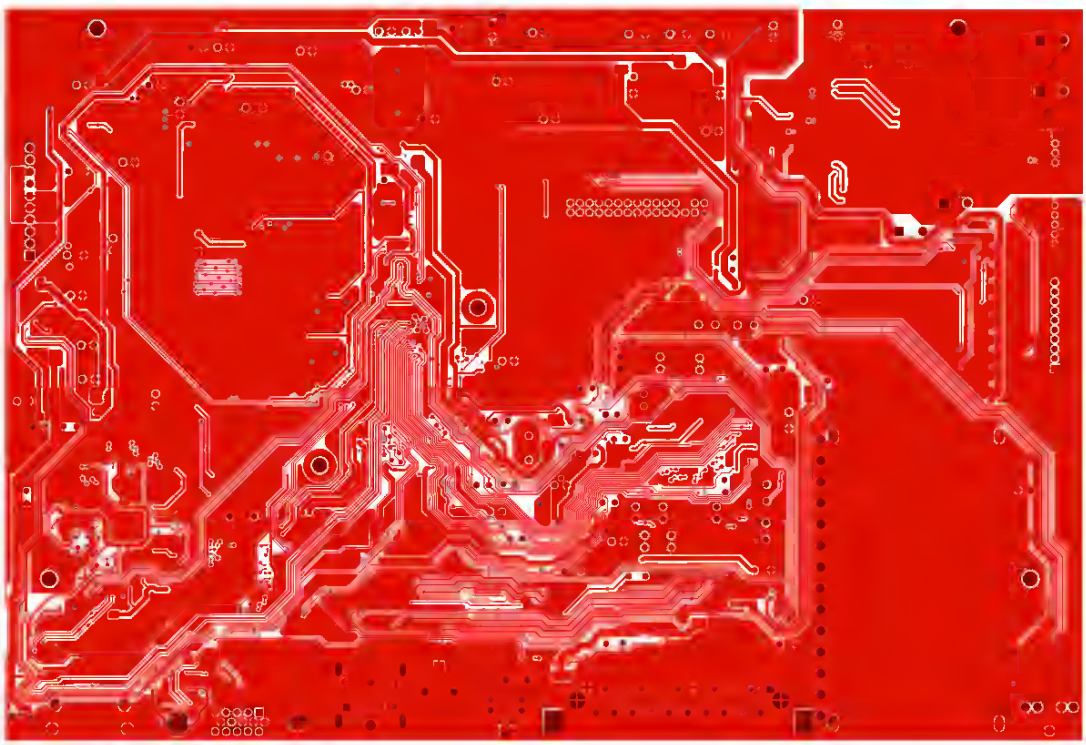
PCB CONDUCTOR VIEW

MAIN BOARD



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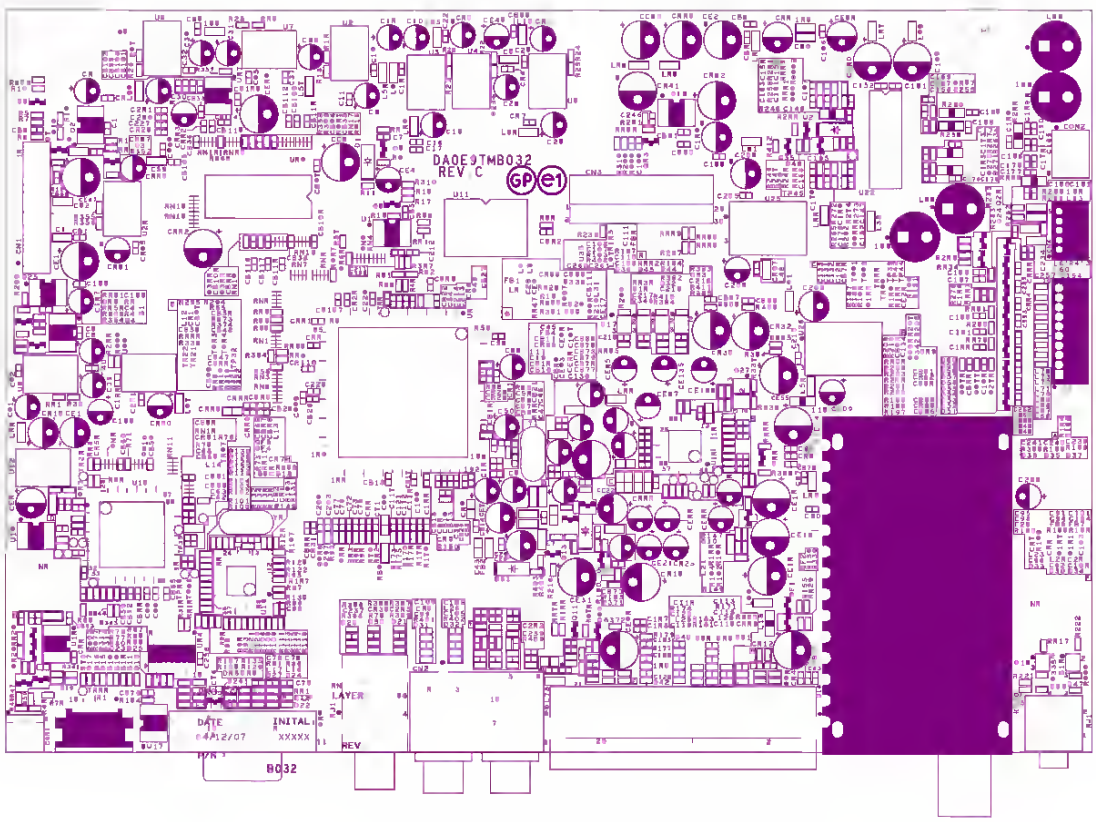

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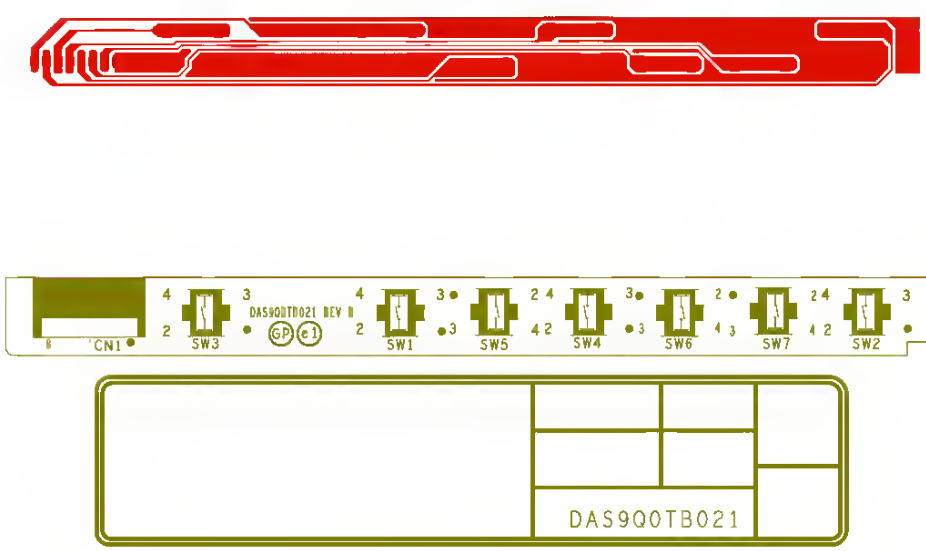
BUTTON BOARD



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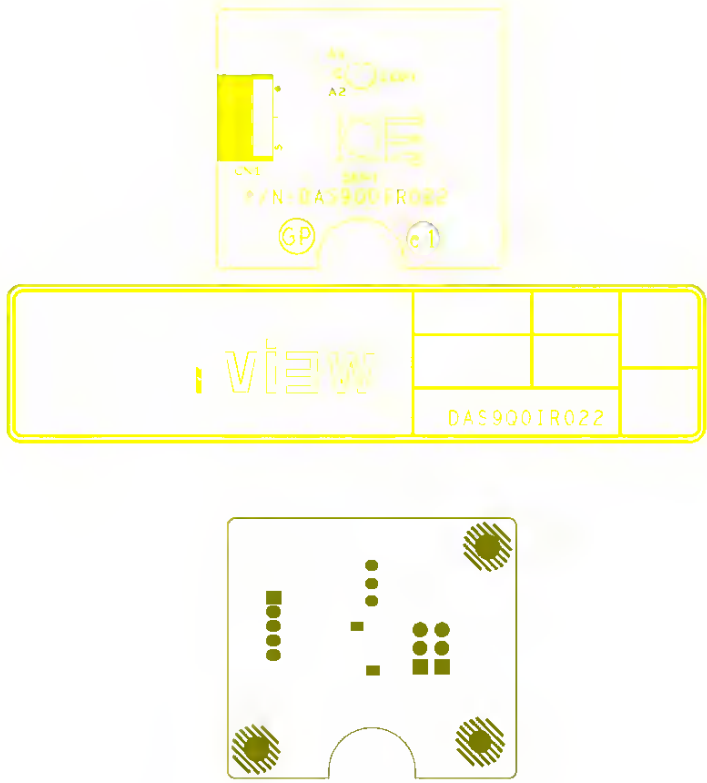
USB BOARD



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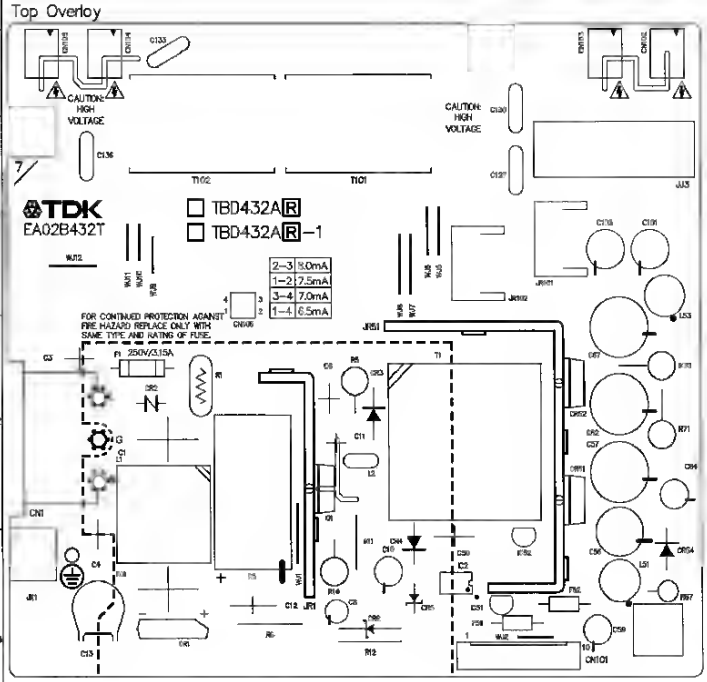
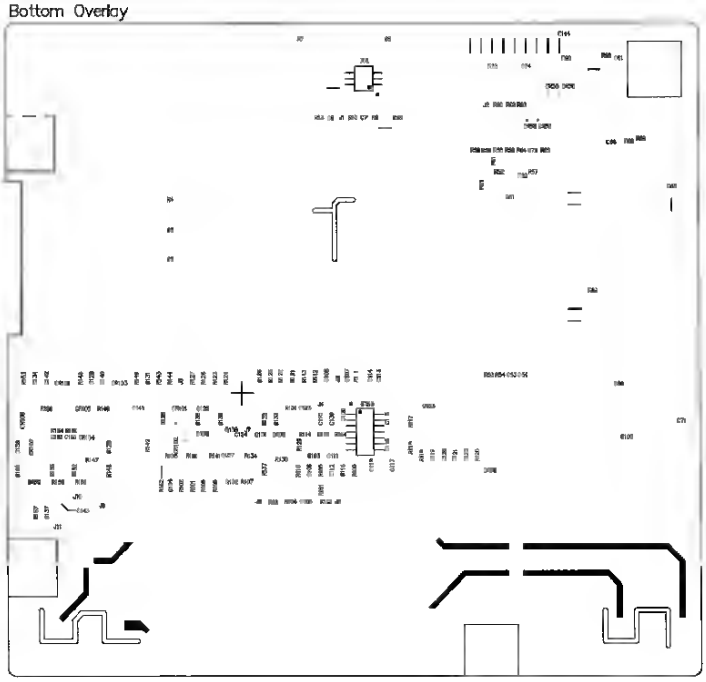
POWER BOARD

Top Overlay



Bottom Overlay



註：PCB 上須捺印 UL MARK.

No	圖號 DWG.No.	名稱 • NAME	數QU	材質 • MATERIAL	處 理 TREATMENT	備 考 REMARK
設計 • DESIGN			日期 DATE	/ /	名稱 TITLE	基 板 圖
製圖 • DRAWING			日期 DATE	/ /	型式 MODEL	TBD432AR
檢查 • CHECKED			日期 DATE	/ /	比例 SCAL	1 3/1
承認 • APPVD			日期 DATE	/ /	單位 UNIT	mm
承認 • APPVD			日期 DATE	/ /	第三角法	THIRD ANGLE PROJECTION

版 REV	日 期 DATE	設計 DSGN	內 容 • DESCRIPTION	承認 APV

TDK 台灣東電化股份有限公司 TDK TAIWAN CORP

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Chapter 2

OPERATING INSTRUCTIONS

Front Panel Definition

This Section defines the front panel User Interface for Led Indictor and Key function.

	BUTTON	OSD On	OSD Off
1	Power	Software On / Off	
2	Menu / Exit	Press this button to open the OSD or Enter function	
3	CH Up	Press CH Up key to move selection up	Press these buttons to select the TV channel in sequence.
4	CH Down	Press CH Down key to move selection down	Press these buttons to select the TV channel in sequence.
5	Vol Left	Press Vol Left key to move selection left or to decrease value	Press these buttons to select the volume level.
6	Vol Right	Press Vol Right key to move selection right or to increase value	Press these buttons to select the volume level.
7	Input / OK	Press this button to confirm selection	Press this button to select the input source: ATV --> AV--> S-Video--> SCART --> HDMI---> VGA--> Back to ATV
	PS:	PS: SCART: RGB/S-Video/CVBS	

Remote Controller Key Definition

Item	Key	Function
1	POWER	Power On/Off
2	Mute	Mute on/off
3	SLEEP	Into sleep mode: Timer Off / 15 / 30 / 45 / 60 / 90 / 120 (minutes)
4	Display	Pressing "Display" shows the source information
5	TV	ATV
6	SCART	SCART
7	AV	(AV/S-Video/HDMI)
8	PC	VGA
9	1	Number key 1

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10	2	Number key 2
11	3	Number key 3
12	4	Number key 4
13	5	Number key 5
14	6	Number key 6
15	7	Number key 7
16	8	Number key 8
17	9	Number key 9
18	0	Number key 0
19	Recall	Reture to previous channel
20	Enter	Enter to confirm channel selection by number key
21	Up	1.Navigate up in the OSD menu 2.channel up when OSD menu is not showed on screen
22	Down	1.Navigate down in the OSD menu 2.channel down when OSD menu is not showed on screen
23	Left	1.Navigate left in the OSD menu 2.volume down when OSD menu is not showed on screen
24	Right	1.Navigate right in the OSD menu 2.volume up when OSD menu is not showed on screen
25	OK	Selection Confirmation
26	Menu	Open/Exit Menu
27	Channel Up	In ATV mode, press this key to do Channel up,
28	Channel Down	In ATV mode, press this key to do Channel down
29	Volume up	Volume up
30	Volume down	Volume down
31	MPX	NICAM STEREO Broabcast : Stereo/Mono BILINGUAL Broadcast : Sound 1 / Sound 2 MONAURAL : Mono FM-FM STEREO Broadcast : Stereo/Mono BILINGUAL: Sound1/Sound2/Stereo/Mono
32	INDEX	Go to index page (usually page 10)
33	SUBTITLE	When in teletext mode of any possible source, toggle subtitle on and off In digital TV mode, press it to change various, subtitle language and off in a loop. TV screen will display the status icon on the left top corner
34	TELETEXT/MIX	when in any possible source which has teletext mode, Turn teletext mode on / off and Overlay the telext page on the TV picture
35	REVEAL	Display Hidden Information

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36	SIZE	When in teletext pages, this key zoom page toggle 1X/2X and page selection by Up-arrow and Down-arrow
37	SUBPAGE	Subpage directly
38	HOLD	when in teletext pages, press this button temporarily holds the current teletext page
39	R	Red color button to do teletext operation In teletext mode,
40	G	Green color button to teletext operation In teletext mode
41	Y	Yellow color button to teletext operation In teletext mode
42	B	Blue color button to teletext operation In teletext mode
43	WIDE	Scaling Mode (4:3 /16:9 /Panorama /Letterbox1/ Letterbox2/ Letterbox3)

OSD Tree

PAL Menu Structure									
1st Sub Menu	2nd Sub Menu	3rd Sub Menu	4rd Sub Menu	ATV	S-Video	AV	Scart	VGA	HDMI
Picture	Brightness	Slider	[50] 0-100 / 1	v	v	v	v	v	v
	Contrast	Slider	[80] 0-100 / 1	v	v	v	v	v	v
	Color	Slider	[70] 0-100 / 1	v	v	v	v		v
	Hue	Slider	[50] 0-100 / 1		v	v	v		v
	Sharpness	Slider	[4] 0-7 / 1	v	v	v	v		v
	Back Light	Slider	[100] 0-100 / 1	v	v	v	v	v	v
	Color Temp	Cold		v	v	v	v	v	v
		[Standard]							
		Warm							
	Noise Reduction	[Off] / Low / Medium / High		v	v	v	v		v
	Focus	Slider	[50] 0-100 / 1					v	
	Clock	Slider	[50] 0-100 / 1					v	
	H-Position	Slider	[0] -50-50 / 1					v	
	V-Position	Slider	[0] -50-50 / 1					v	
	Auto Adjust							v	
Audio	Treble	Slider	[50] 0-100 / 1	v	v	v	v	v	v
	Bass	Slider	[50] 0-100 / 1	v	v	v	v	v	v
	Balance	Slider	[0] -50-50 /1	v	v	v	v	v	v

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	Sound Effect	On							
		[Off]		v	v	v	v	v	v
	Steady Sound	On							
		[Off]		v	v	v	v	v	v
Channel Management	Country	UK		v					
		France							
		Germany							
		Italy							
		Spain							
		Switzerland							
		Denmark							
		Belgium							
		Netherlands							
		Luxembourg							
		Czech Republic							
		Portugal							
		United Arab Emirates							
		Saudi Arabia							
	Skip	On							
		[Off]		v					
	Reorder			v					
	Name			v					
	Frequency			v					
	Auto Scan			v					
	Manual Scan	Scan up							
		Scan down							
		Scan for update		v					
	Lock This Channel	Please enter your PIN [- - - -]	Lock/[Unlock]	v					
Settings	Menu Language	[English]		v	v	v	v	v	v
		Deutsch							
		French							
		Italian							
		Spanish							
		Portuguese							
		Cestina							

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		Dansk							
		Dutch							
	Sleep	[Off]/15/30/45/60/90/120		v	v	v	v		v
	Set PIN	Please enter your PIN [- - - -]	New PIN: Type it again to confirm:	v					
	Wide Mode	Full		v	v	v	v	v	v
		4:3		v	v	v	v	v	v
		[16:9]		v	v	v	v		v
		Panorama		v	v	v	v		v
		Letterbox1		v	v	v	v		v
		Letterbox2							
	HDMI Scan Info.	[Auto] / Overscan / Underscan							v
	Factory Default			v	v	v	v	v	v

Teletext Operation

TELETEXT/MIX	TV/Teletext Mode By pressing Teletext (go to index page),screen will change from TV/AV mode to Teletext mode and vice versa and Overlay the telext page on the TV picture
Up/Down and Number Key	Page Selection Page can be selected in two ways: a. Press Up or Down to increase or decrease the page number by one b. By entering the page number, using 0~9 on the remote controller
Red/Green/Yellow/Blue	Teletext RGBY soft key In fast text mode these correspond to differently coloured subjects, In list mode they correspond to the different coloured page numbers.
HOLD	Hold the page To hold the Teletext page when viewing multi-page information. Press again to return to automatic page update
SIZE	Zoom Teletext Page This is used to zoom page up to 2X . Press again to return.
SUBTITLE	Show Subtitle on the screen
INDEX	Go to index page (usually page 10)
REVEAL	Display Hidden Information
SUBPAGE	Subpage directly

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Chapter 3

Machine assembly

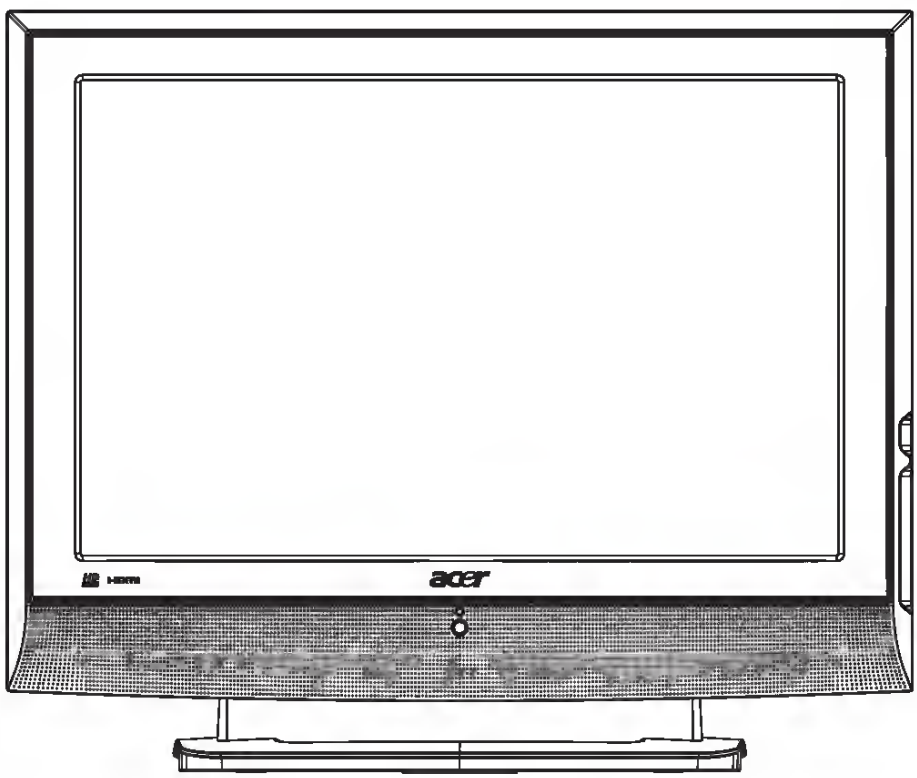
This chapter contains step-by-step procedures on how to assemble the monitor for maintenance and trouble shooting

NOTE: 1. The screws for the different components vary in size. During the disassembly process, group the screws with the corresponding to avoid mismatch when putting back the components.

2. Note: The monitor surface is susceptible to scratching! Therefore, lay the monitor on a soft surface when mounting or removing the base.

3. Wear gloves.

Front View: (unit: mm)



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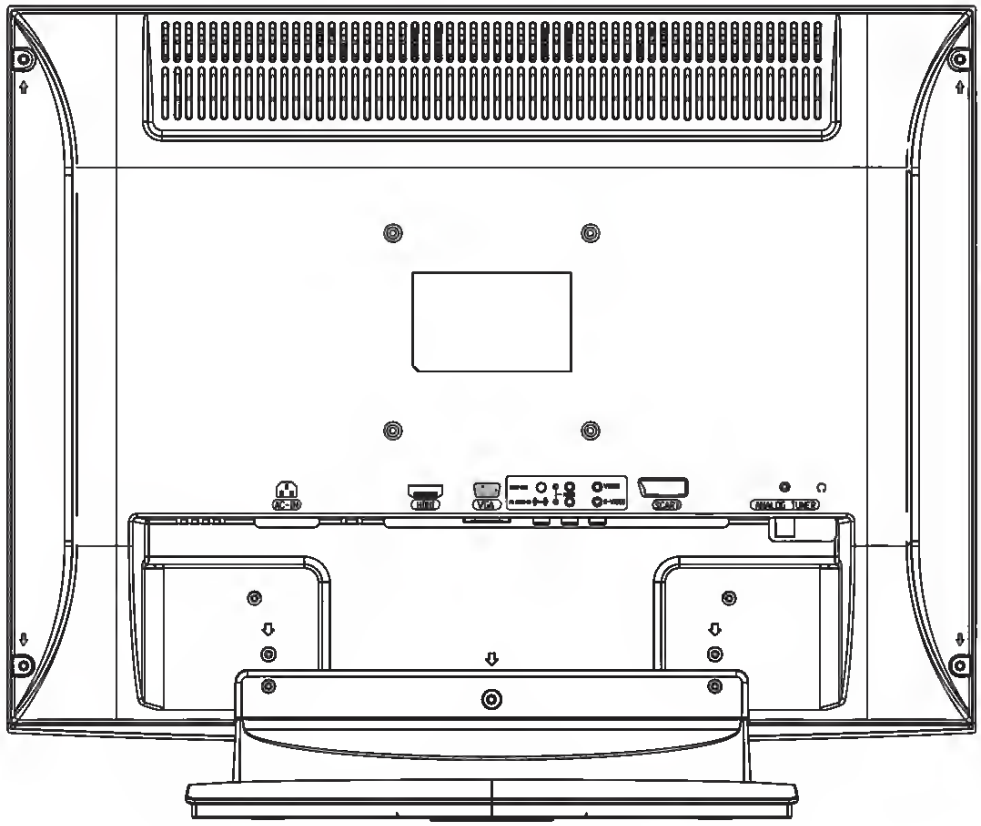
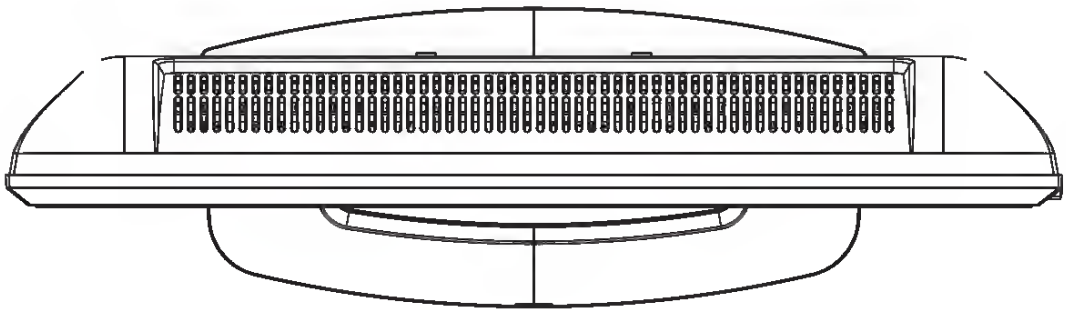
Real View :



Top View :



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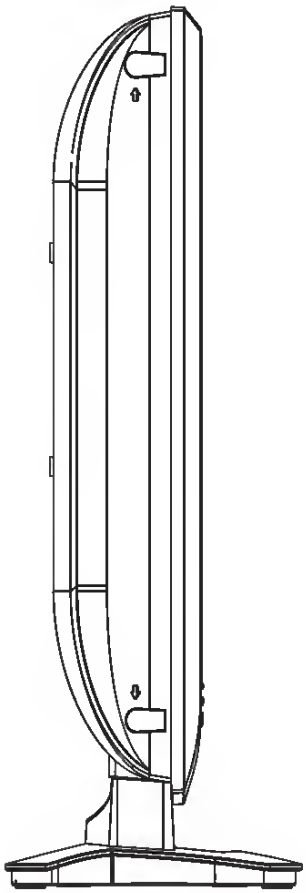
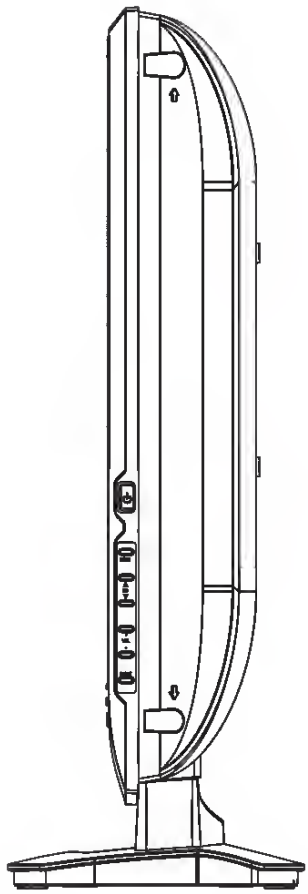
Side View: (unit: mm)





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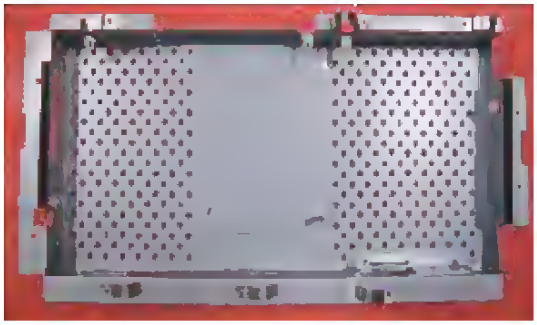
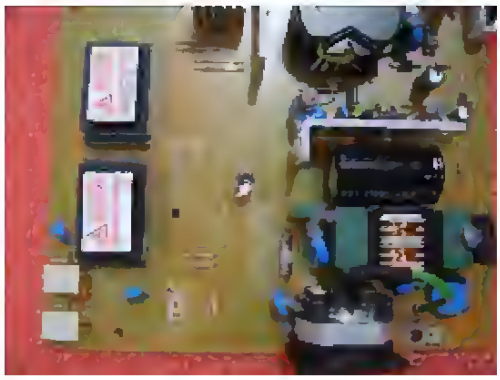
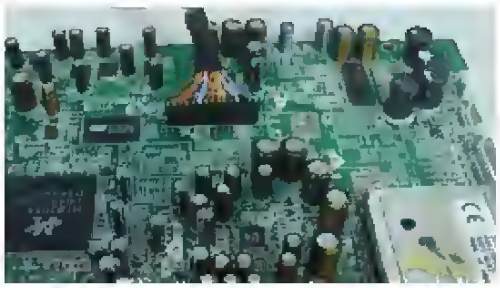
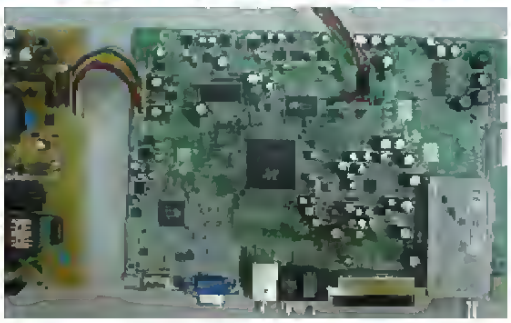
Assembly process

	CHECKING THE FOAM AND PUT IT TO THE PRODUCTION LINE. CHECKING THE SHIELDING AND STICK 2* PCS FOAM. PUT THE FLOW CARD TO THE BOARD.
	SCAN THE FLOW CARD AND CODE OF P/B INTO THE TMS SYSTEM. INSERT THE JUMP CABLE INTO THE P/B AS LEFT SHOW. CONNECT THE JUMP CABLE AND P/B WITH WHITE GOOEY MARK THE LOCATION WITH COLOR PEN AS LEFT SHOW. PUT IT TO THE PRODUCTION LINE.
  	CHECKING THE M/B AND LVDS CABLE, AND INSERT THE LVDS CABLE INTO THE JOINT OF M/B. INSERT THE M/B-P/B CABLE INTO THE JOINT OF M/B AND P/B. PUT THE CONNECTED M/B AND P/B TO THE SHIELDING, THEN PUT IT TO PRODUCTION LINE.

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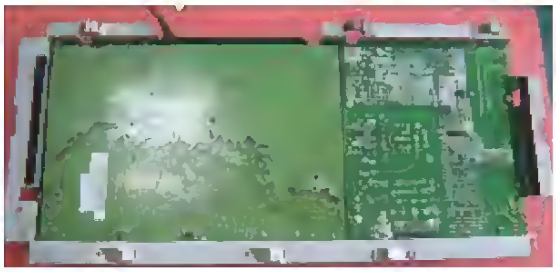
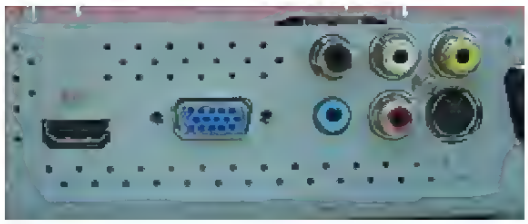
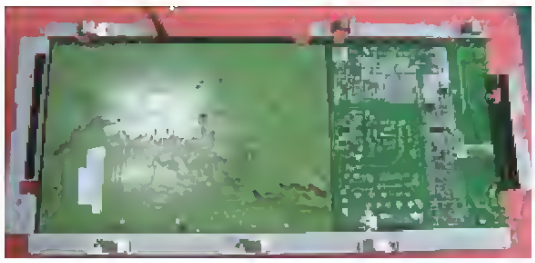
	LOCK UP 4* PCS SCREWS(F3.0* 6.0-T) TO THE LOCATION OF M/B AND P/B AS LEFT SHOW. LOCK UP 1* PCS SCREW(F4.0* 8.0-T) TO THE P/B. LOCK UP 1* PCS SCREW(M3.0* 5.0-I) TO THE P/B.
  	LOCK UP 2* PCS SCREWS(F3.0* 6.0-T) TO THE P/B AS LEFT SHOW. LOCK UP 1* PCS SCREW(M3.0* 5.0) TO THE SHIELDING . LOCK UP 1* PCS SCREW(M3.0* 7.0) TO THE SHIELDING.
 	REMOVE THE SHIELDING FORWARD. PUT THE PANEL TO THE PRODUCTION LINE AND TEAR OFF THE PROTECT FILM.

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TEAR OFF THE PROTECT FILM OF PANEL AND CHECKING IF BAD.

STICK GOOEY TAPE FOR FIXING PROTECT FILM.

TURN OVER LCD AND TEAR OFF EP BAG.

STICK 1* PCS CODE TO PANEL AS LEFT SHOW.

SCAN THE FLOW CARD, PANEL CODE AND P/N TO TMS SYSTEM.

CHECKING THE LEFT BRACKET AND PUT IT TO THE LEFTSIDE OF PAENL.

LOCK UP 2* PCS SCREWS FOR FIXING LEFT BRACKET .

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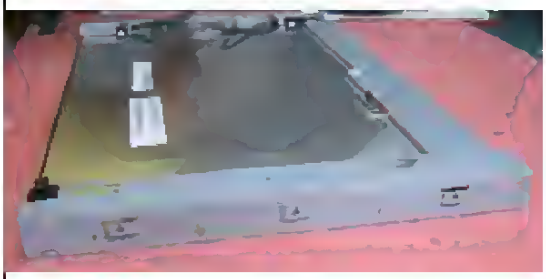
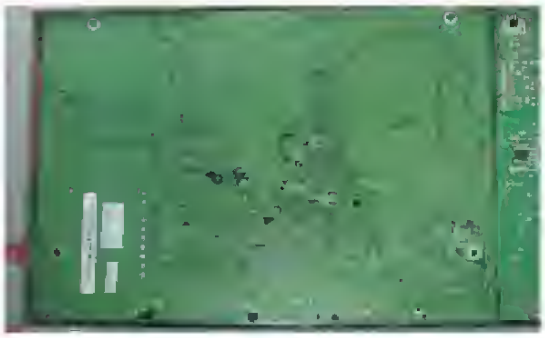
  	STICK 1* PCS CABLE FASTNER TO THE DOWNSIDE OF RIGHT BRACKET AS LEFT SHOW. PUT THE RIGHT BRACKET TO THE PAENL. LOCK UP 2* PCS SCREWS TO RIGHT BRACKET FOR FIXING.
 	SCAN FLOW CARD AND M/B CODE TO THE TMS SYSTEM. INSERT THE LVDS CABLE TO THE JOINT OF PANEL. STICK 1* PCS ACETIC TAPE FOR FIXING LVDS CABLE.

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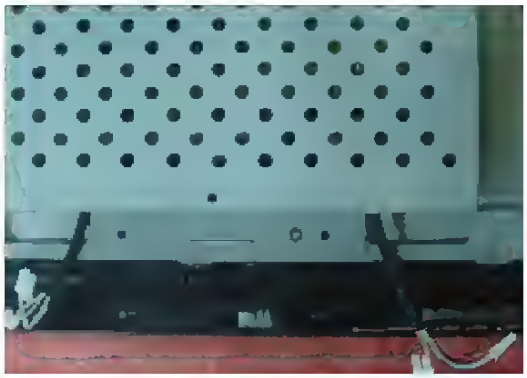
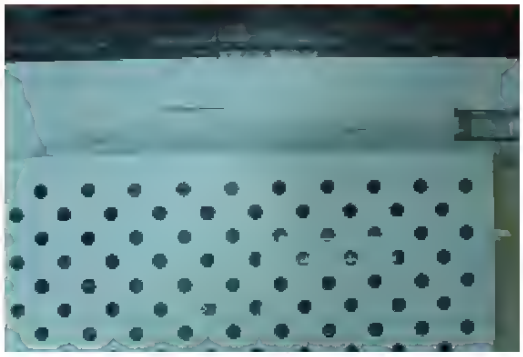
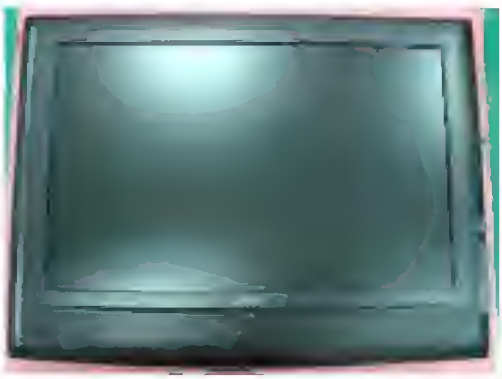
 	CONNECT THE SHIELDING AND BRACKET AS LEFT SHOW. LOCK UP 4* PCS SCREWS(F3* 6) FOR FIXING SHIELDING. TRUN OVER LCD.
  	CHECKING THE BEZEL IF BAD AND PUT IT TO THE PANEL. TRUN OVER THE LCD.

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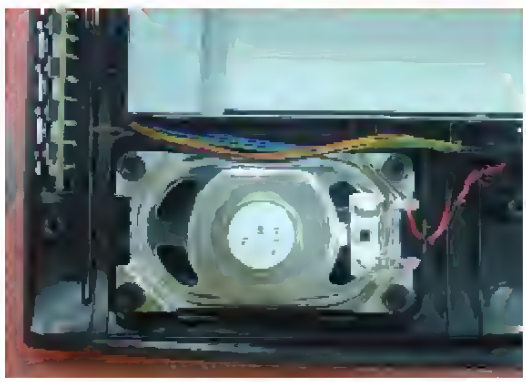
 	LOCK UP 3* PCS SCREWS FOR FIXING RIGHTSIDE BEZEL AND BRACKET. LOCK UP 3* PCS SCREWS FOR FIXING LEFTSIDE BEZEL AND BRACKET.
	INSERT THE 4PCS LAMP CABLE TO THE
  	PUT THE SPEAKER TO THE BEZEL AS LEFT SHOW. LOCK UP 4* PCS SCREWS FOR FIXING LEFT SPEAKER.

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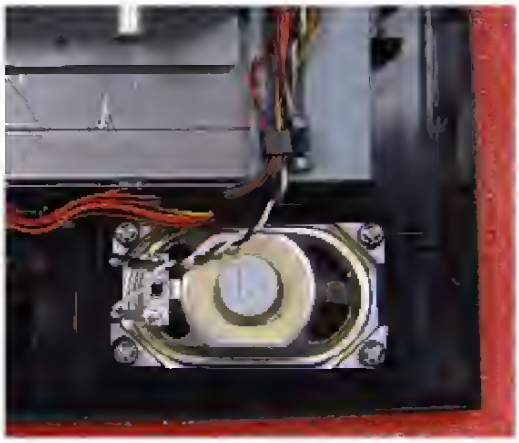
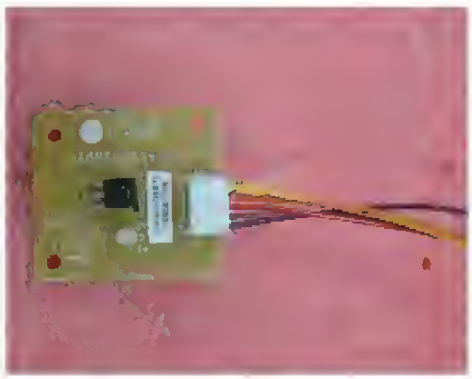


LOCK UP 4* PCS SCREWS FOR FIXING RIGHT SPEAKER.

GET THE B/B AND CONNECT THE B/B AND BEZEL WITH B/B CABLE.



GET THE IR/B AND INSERT THE IR/B CABLE TO THE JOINT OF M/B.

PUT THE IR/B TO THE LOCATION OF BEZEL.

LOCK UP 2* PCS SCREWS(F3* 10)TO THE IR/B FOR FIXING.

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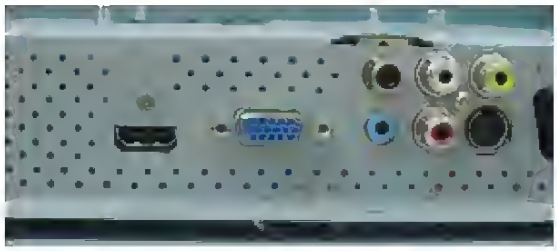
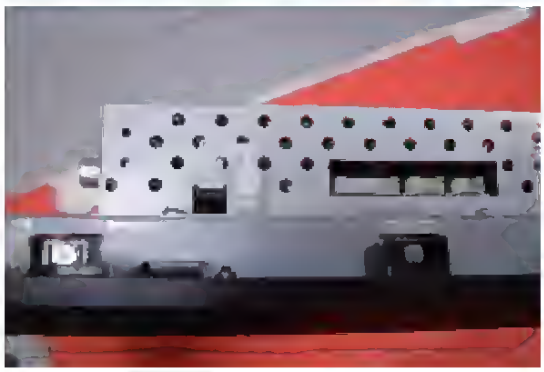
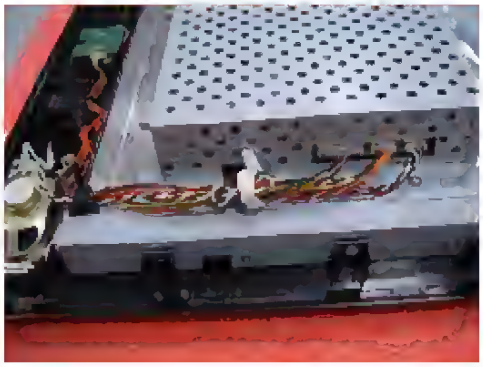




LOCK UP 2* PCS IO NUTS FOR FIXING SHIELDING.

INSERT 1* PCS CABLE FASTNER TO SHIELDING.



SETTLE THE CABLE FOR B/B, SPEAKER, IR AND INSERT THEM INTO THE JOINT AS LEFT SHOW.

STICK 1* PCS ACETIC TAPE FOR FIXING B/B AS LEFT SHOW.

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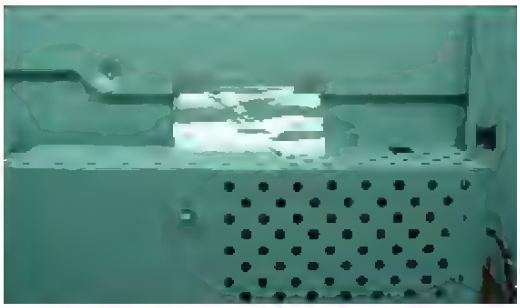
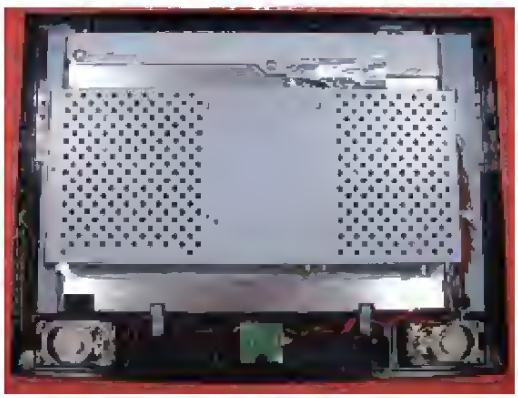
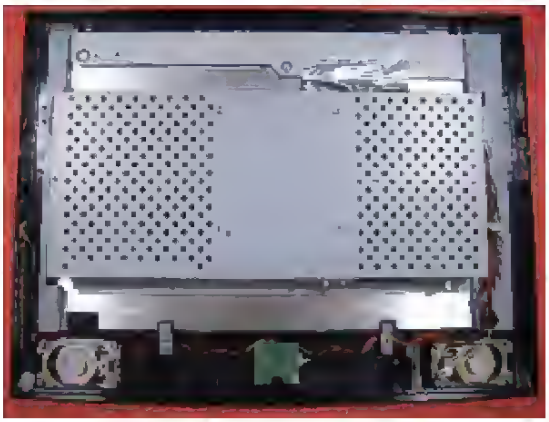
 	STICK 1* PCS AL FOIL TO AL1 WHICH IS BETWEEN THE PAENL AND SHIELDING. LOCK UP 2* PCS SCREWS TO FIXING FASTENER BETWEEN PAENL AND BEZEL.
	CHECKING THE CABLE IF WRONG WAY. CHECKING THE SCERWS IF LOOSE. CHECKING THE AL FOIL IF WRONG WAY. MARK THE AL FOIL WITH WHITE PEN. SHAKE THE LCD IF SOMETHING IN IT.
	CHECKING THE REAR COVER IF BAD. CONNECT THE BEZEL AND REAR COVER WITHOUT

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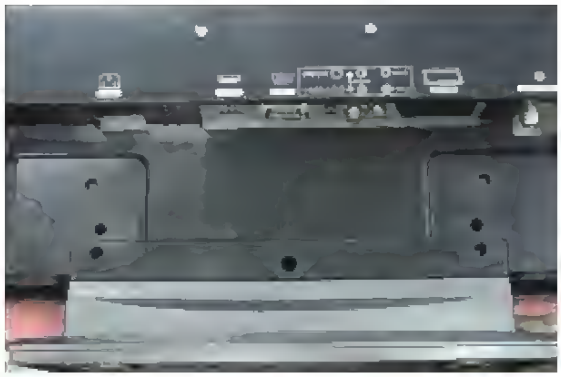	LOCK UP 2* PCS SCREWS FOR FIXING REAR COVER STICK 1* PCS FLOW CARD TO GOOEY OF REAR COVER. COVER IT WITH BAG.
	LOCK UP 5* PCS SCREWS FOR FIXING REAR COVER AND BEZEL.
	INSERT THE VGA CABLE INTO THE JOINT OF VGA. CONNECT THE POWER CORD AND LCD TV. STAND UP LCD.

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	STICK FLOW CARD TO BASE. CHECKING THE BEZEL WHETHER BAD. CHECKING THE REAR COVER WHETHER BAD. CHECKING FUNCTION/B WHETHER BAD.

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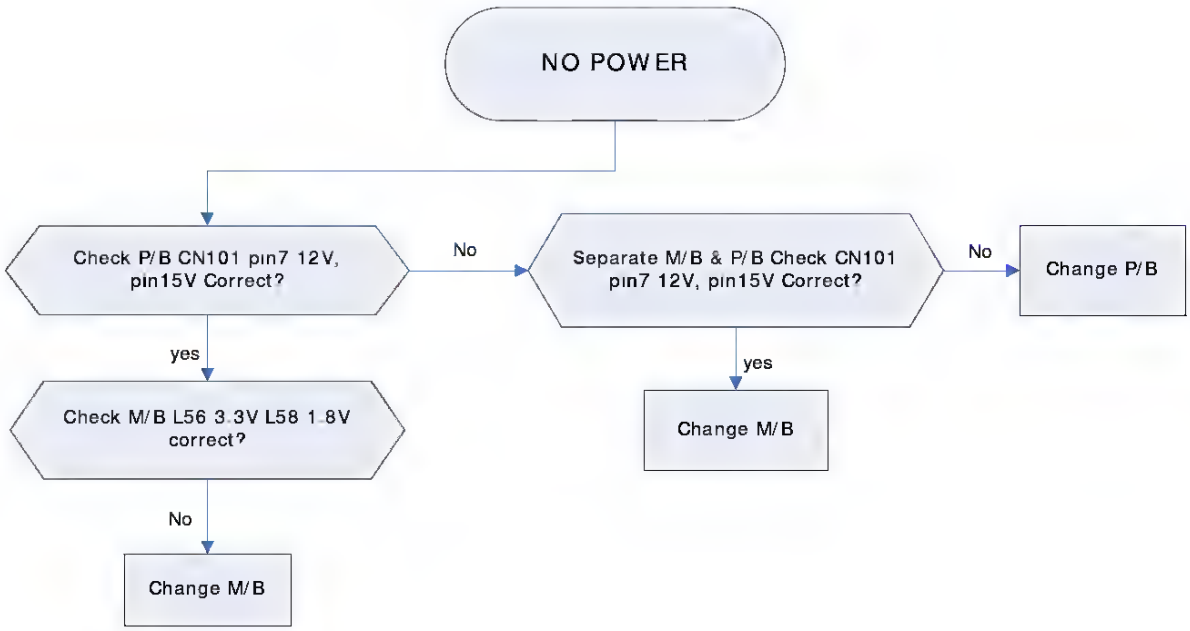
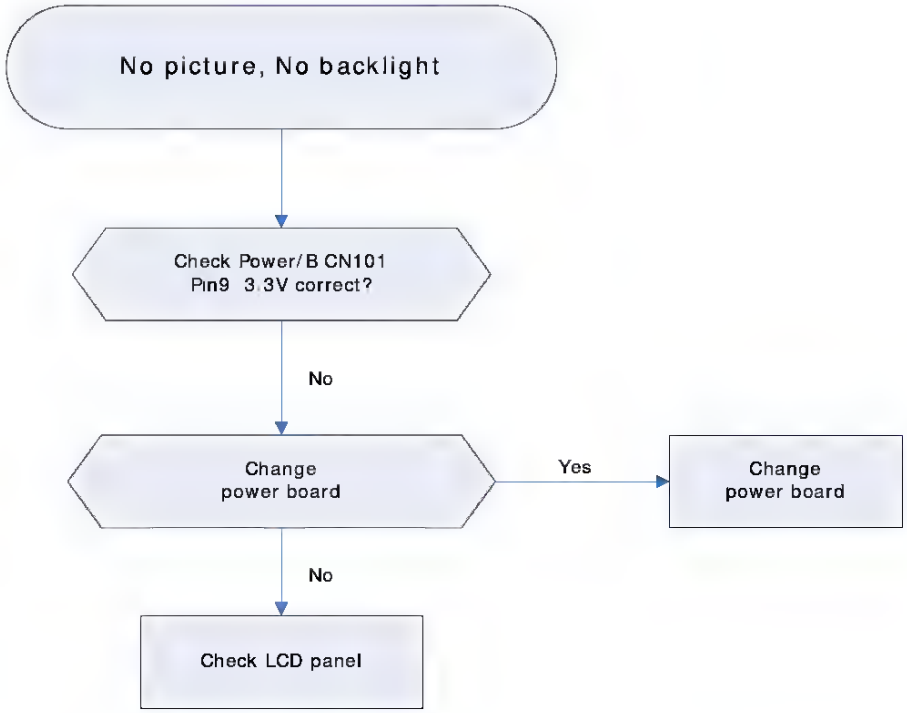
Chapter 4

TROUBLE SHOOTI NG

This chapter provides trouble shooting information for AT1921/ 22





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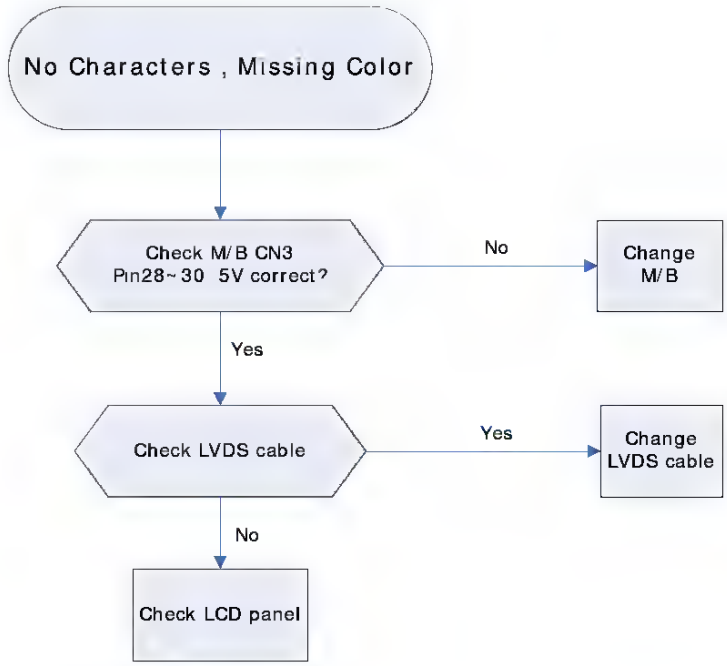

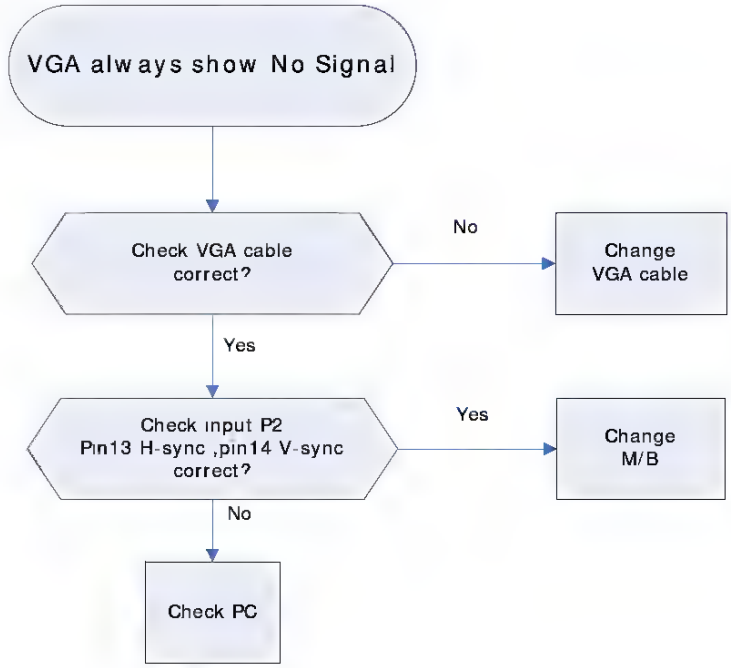

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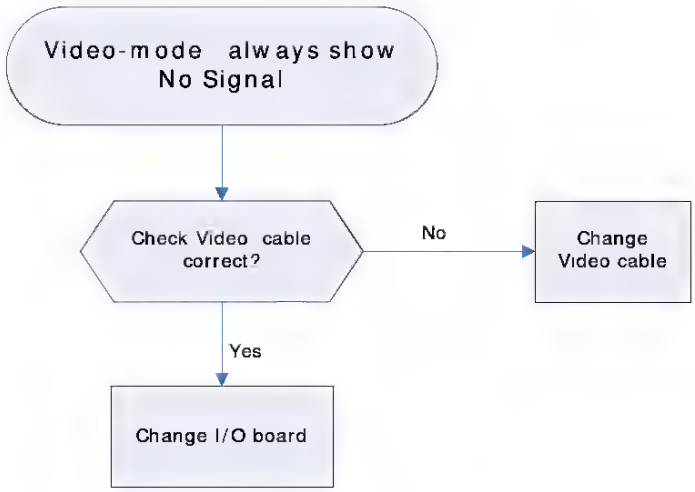

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Chapter 5

Connector Information

1	Power Cord	Length:	1.8meters +15mm/-0mm
		Cable Color:	Black color
		Quantity:	4
2	AV (Video& Audio) Cable	Length:	1.8meters +15mm/-0mm
		Cable Color:	Black color
		Quantity:	no
3	SCART Cable	Length:	1.8meters +15mm/-0mm
		Cable Color:	Black color
		Quantity:	no
4	TV Antenna Cable	Length:	2.5meters +15mm/-0mm
		Cable Color:	Transparent color
		Quantity:	no
5	VGA Cable	Length:	1.8meters +15mm/-0mm
		Cable Color:	Black color
		Quantity:	no
6	Remote Controller Unit	Multi-function remote controller include battery	
		Quantity:	one
7	TV User Guide	Quantity:	one
8	Remote Controller User Guide	Quantity:	no
9	Warranty Card	Quantity:	no
10	Battery	Quantity:	TBD

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Chapter 6

FRU (Field Replaceable Unit) LIST

This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of AL1511. Refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization).

NOTE: Please note WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel(http://aicsl.acer.com.tw/spl/). For whatever reasons a part number change is made, it will not be noted in the printed Service Guide. For ACER-AUTHORIZED CERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code to those given in the FRU list of this printed Service Guide. You MUST use the local FRU list provided by your regional Acer office to order FRU parts repair and service of customer machines.

NOTE: To scrap or to return the defective parts, you should follow the local government ordinance or regulations on how best to dispose it, or follow the rules set by your regional Acer office on how to return it.

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E9T Explode Diagram

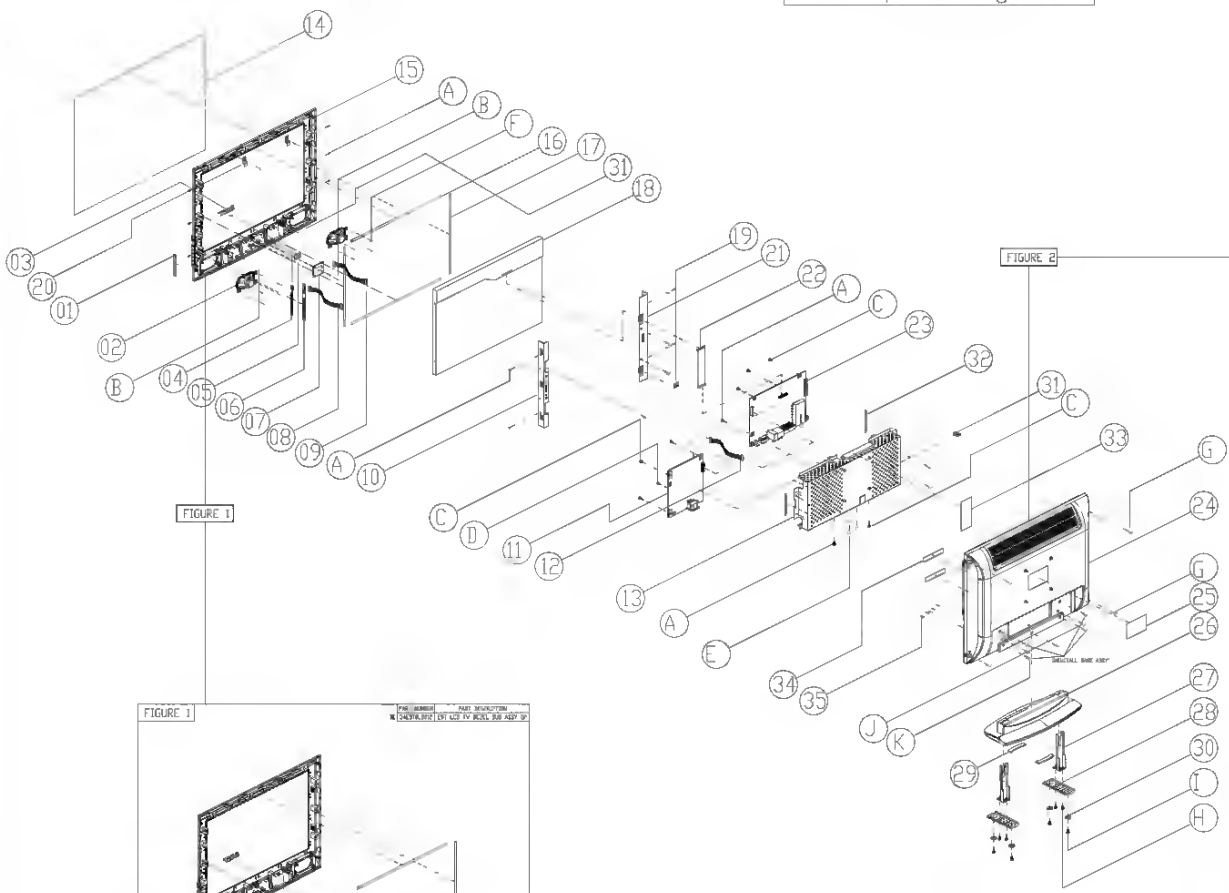


FIGURE 1

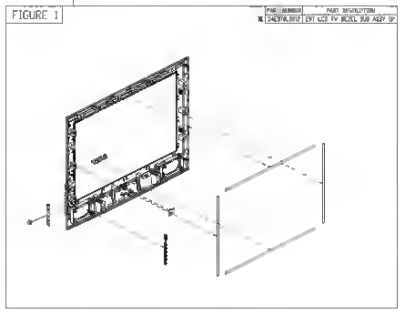
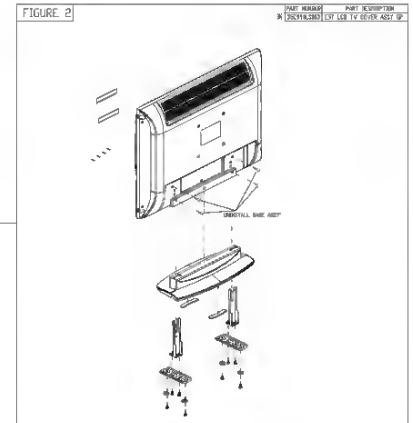


FIGURE 2



ITEM	PART NUMBER	PART DESCRIPTION	UNIT
A	MM30031E14	SCREW M3*3 I-N1 GP	10
B	MF30060E0J5	SCREW F3Ø*6L E_N1 GP	4
C	MF30060TJR2	SCREW F3Ø*6 0.7CMCXGP	17
D	MM40080T1W1	SCREW M4.0*8Ø 0.8CN1_WASHERGP	1
E	M1L11004018	ID NUT L1XCMIL11004_REV3AXGP	2
F	MF25060F3N0	SCREW F2.5*6 FCN1(WASHER) GP	5
G	MF40100L12E	SCREW F4Ø*10-R3N1 GP	5
H	MM40060L69	SCREW M4*6-1 (3N1)CNYLOK)XGP	4
I	MF40080L23	SCREW F4Ø*8-1 C1N1 GP	4
J	MM31040E247	SCREW M3E*4Ø-1 BLAECKNYLOKGP	4
K	MF30100F.23	SCREW F3*10.C3N1 GP	2
L			
M			
N			

ITEM	PART NUMBER	PART DESCRIPTION	UNIT
1	FFS9T01101Z	BUTTON LABEL S9T(FFS9T101_REV3A)GP	1
2	DN01E250F05	SPEAKER ASSY S9Ø FG TE290A GP	2
3	FFVWE003019	ACER LOGO Ø6 VWE(FFVWE003_REV3A) GP	1
4	E9S9Q001018	FUNCTION BUTTON S9QER(S9Q001_REV3A)GP	1
5	EAE9T001013	LENS E9T(EAE9T001_REV3A) GP	1
6	23S9Q0ZZJ00	S9Ø BUTTON/Z ASSY GP	1
7	23S9Q0LE007	S9Ø LED/8 ASSY(E9T-PV) GP	1
8	DD0E9T3U002	CABLE E9T-PV MB BUTTONGP/10P 280MM) GP	1
9	DD0E911R005	CABLE E9T PV MB 1R(3F/5P,500MM) GP	1
10	FAE9T103015	LCD BKT RIGHT E9T-PV(FAE9T003_REV3A)GP	1
11	AS053225Q2	ABP/BNV T5H32AR 90 DEAV REVA GP	1
12	DD0E9TPU011	CABLE E9T-PV POWER M5(10P/10P 80MM) GP	1
13	FAE9T01101Z	PCB SHIELDING E9T PV(FAE9T001_REV3A)GP	1
14	JKW9ZA01019	LCD FILM W9ZA(JKW9ZA01_REV3B)GP	1
15	EAE9T004011	LCD BEZEL E9T(EAE9T004_REV3A) GP	1
16	GBE9T005019	PANEL SPONGE E9T (GBE9T005_R3A)420*7 GP	2
17	GBS9Q013011	PANEL SPONGE S9Q(GBS9Q013_3A)260*6*0.7GP	2
18	AAM190TW011	LCD 19" WXGA M190TW01 V.0 FOR ACER GP	1
19	EBL70123013	WIRE MOUNTS L7JL E(EBL70023_REV3A) GP	2
20	FBW0VA05014	PANEL HOOK W0VA(FBW0VA05_REV3A)GP	2
21	FAE9T102019	LCD BKT LEFT E9T-PV(FAE9T002_REV3A)GP	1
22	DDW9TBLC005	CABLE LVDS(30P TSOMM)W9T8 GP	1
23	21E910N9007	E9T-PV M/B ASSY(MT8201) GP	1
24	EAE9T001012	TV COVER E9T-PV(EAE9T001_REV3A)GP	1
25	MCE9T001014	RATING LABEL E9T(MCE9T001_R3A)GP	1
26	EAE9T013015	BASE E9T(EAE9T003_REV3A)GP	1
27	FAS9Q05012	BASE BKT S9Q(FAS9Q005_REV3A)GP	2
28	FAS9Q06019	BASE PLATE S9Q(FAS9Q006_REV3A)GP	2
29	GAS9Q01017	BASE RUBBER(GAS9Q001_REV3A)GP	2
30	GAS9Q02013	BASE RUBBER CIRCLE(GAS9Q002_REV3A)GP	4
31	EME9T00Z010	WIRE MOUNTS WC-02GE E9T(EME9T002_R3A) GP	1
32	GBE9T001013	SHIELDINGSPONGE E9T(GBE9T001_3A)94*7.5GP	2
33	FCL9V005015	AL FOIL L9VD(_4(FCL9V005_R3A)100*80 GP	1
34	GBE9T003016	COVER SPONGE E9T(GBE9T003_R3A) 2*30 GP	2
35	GBE9T004012	COVER SPONGE E9T(GBE9T004_R3A) 30*15 GP	4
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50			

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Chapter 7

SCHEMATI C DI AGRAM

AT1920 M/B
CONTENTS

SCHEMATIC	SHEET
CONTENT	1
INDEX & POWER CONNECTOR	2
LDO	3
MT8201 LOFP256 E-PAD	4
DDR & FLASH	5
HDMI INPUT-MT8293	6
VGA IN & PC AUDIO IN	7
TUNER INPUT / GPIO	8
AV/SV/AUDIO	9
SCART FULL FUNCTION	10
MT8291 AUDIO ADC	11
LVDS OUT	12
AUDIO AMP	13
Keypad IR	14

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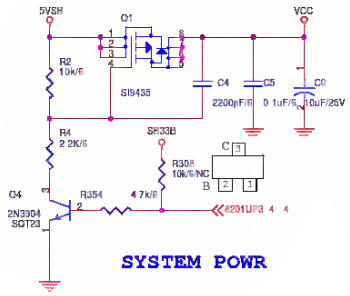

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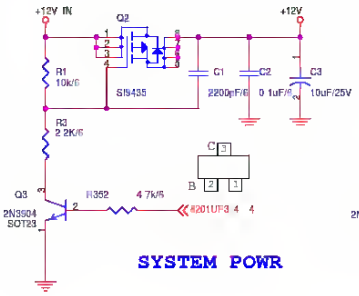

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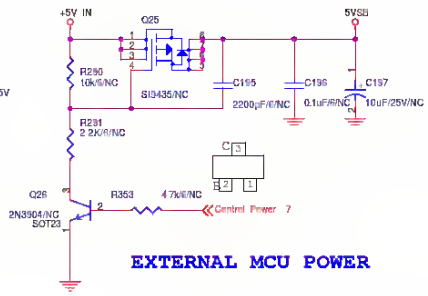

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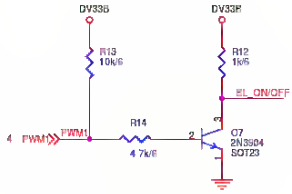

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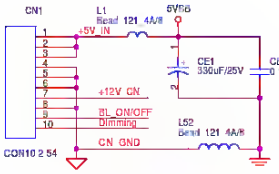
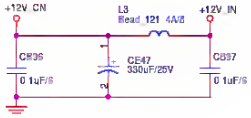
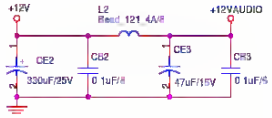


MAIN CONNECTOR





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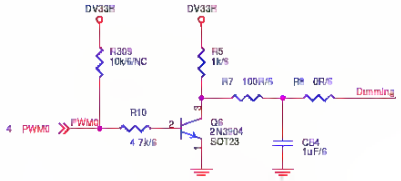
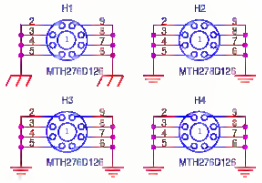
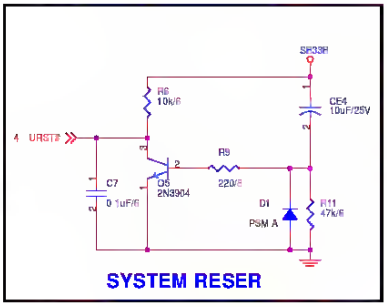


PANEL BRIGHTNESS





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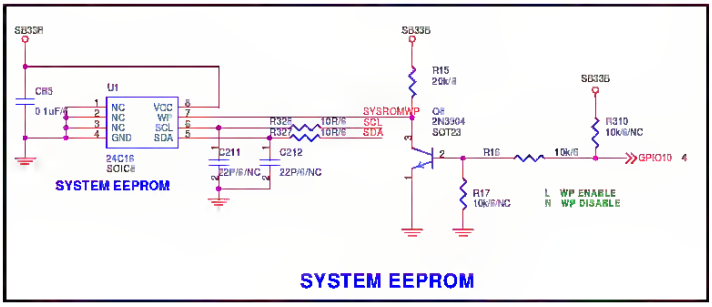

SYSTEM EEPROM

PROJECT :E9T-PV

Title
POWER_RESET_EEPROM

Size Document Number Rev
Custom<Doc> C3B

Date Tuesday, May 29, 2007 Sheet 2 of 14

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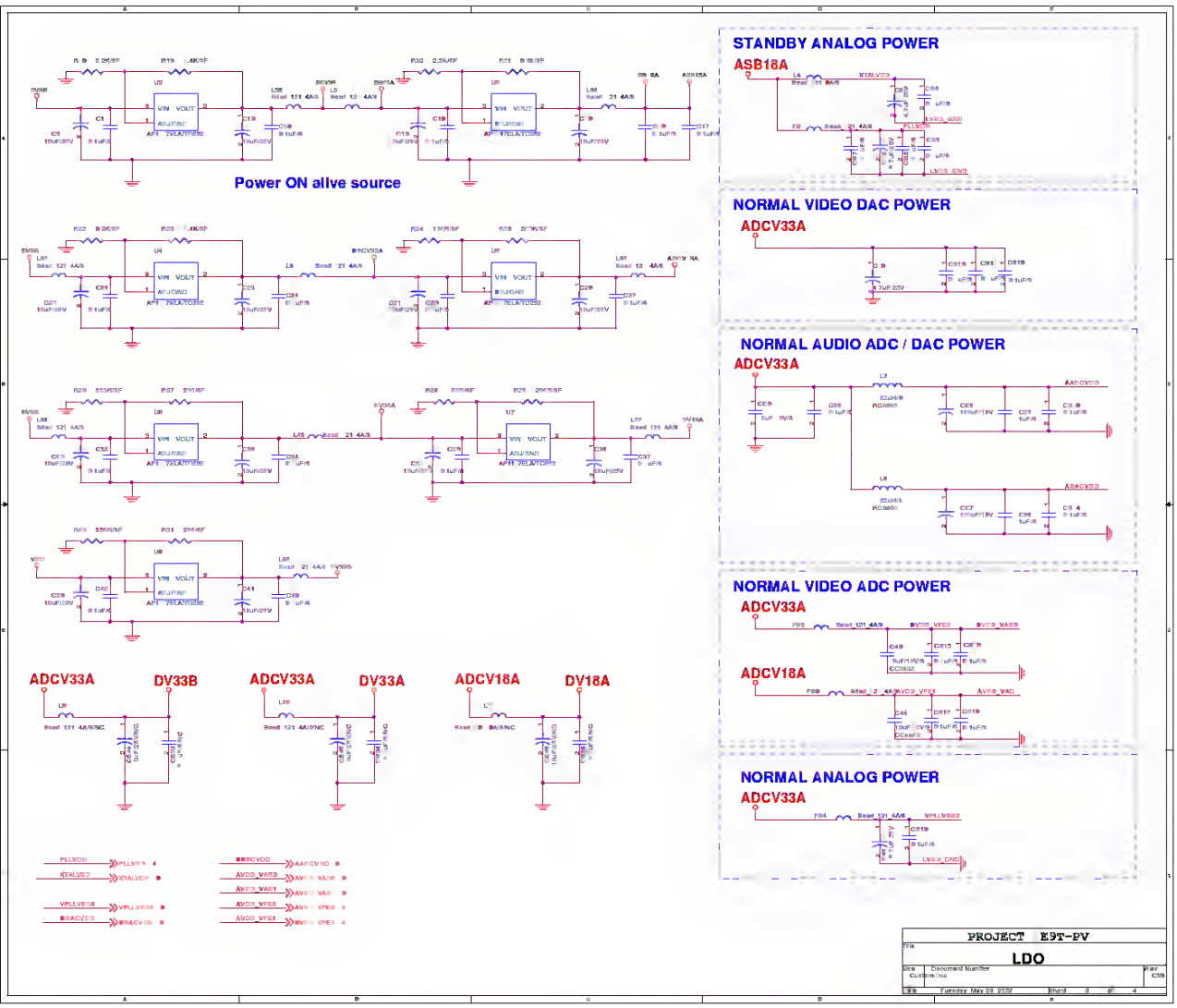

PROJECT E9T-PV

LDO

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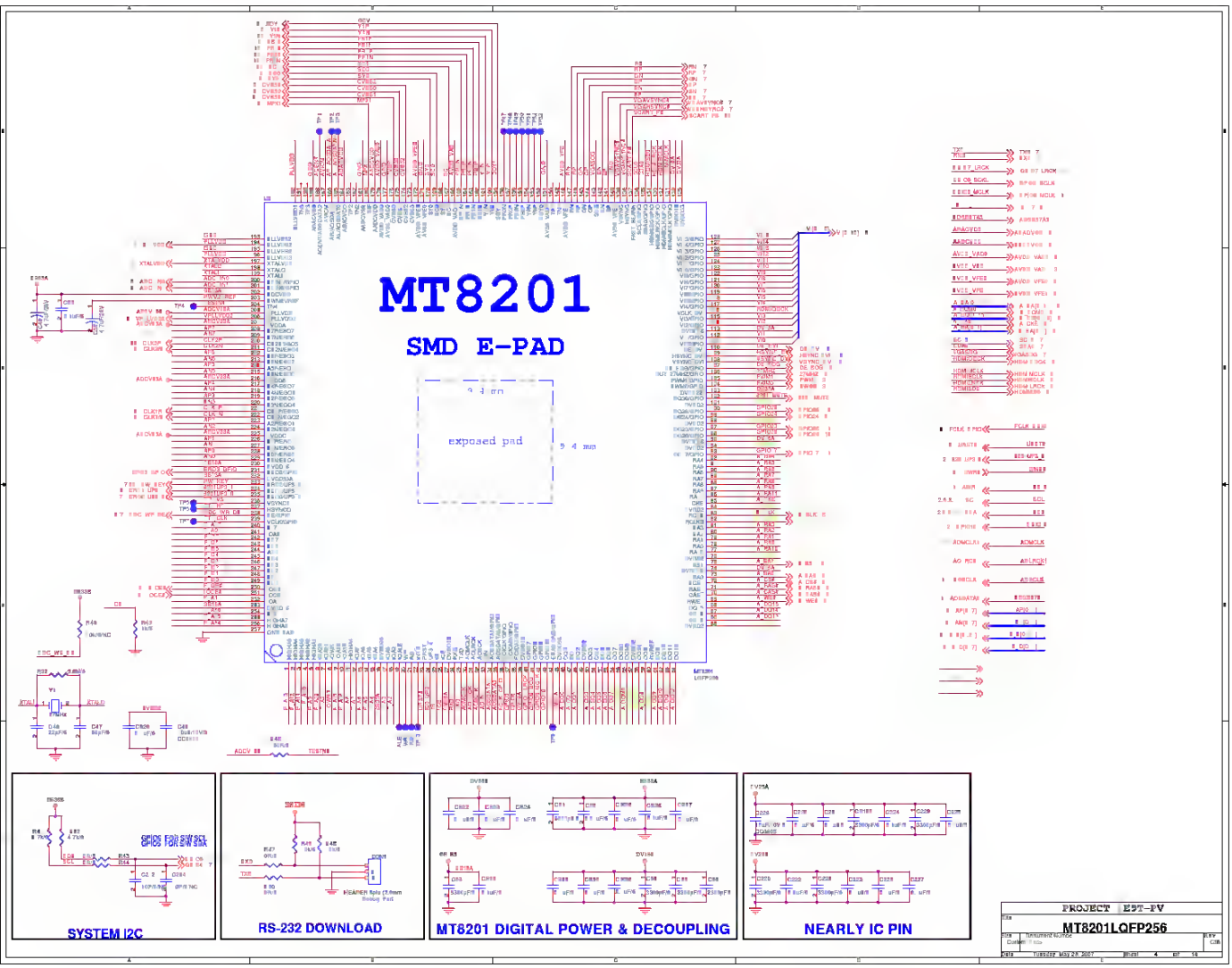

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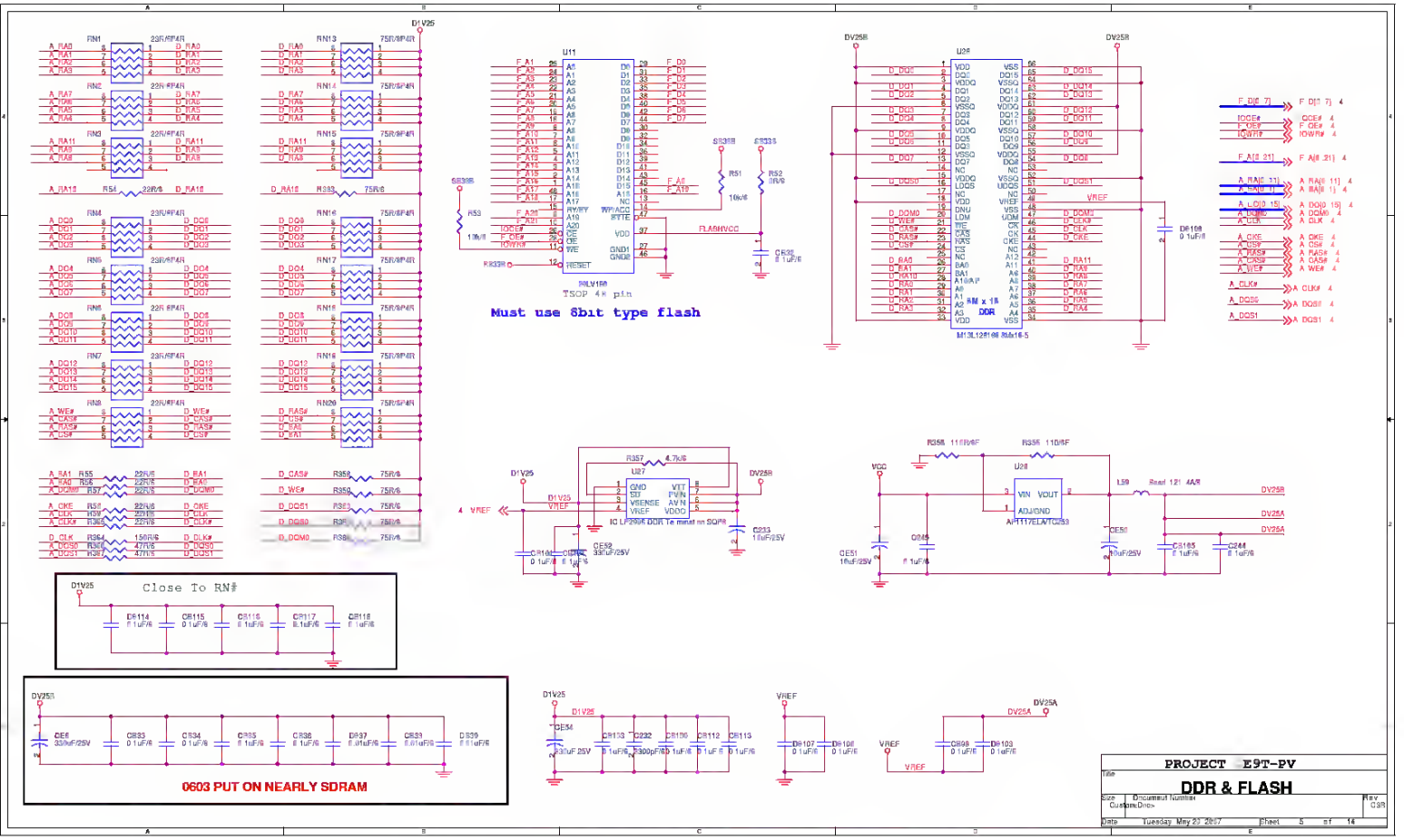

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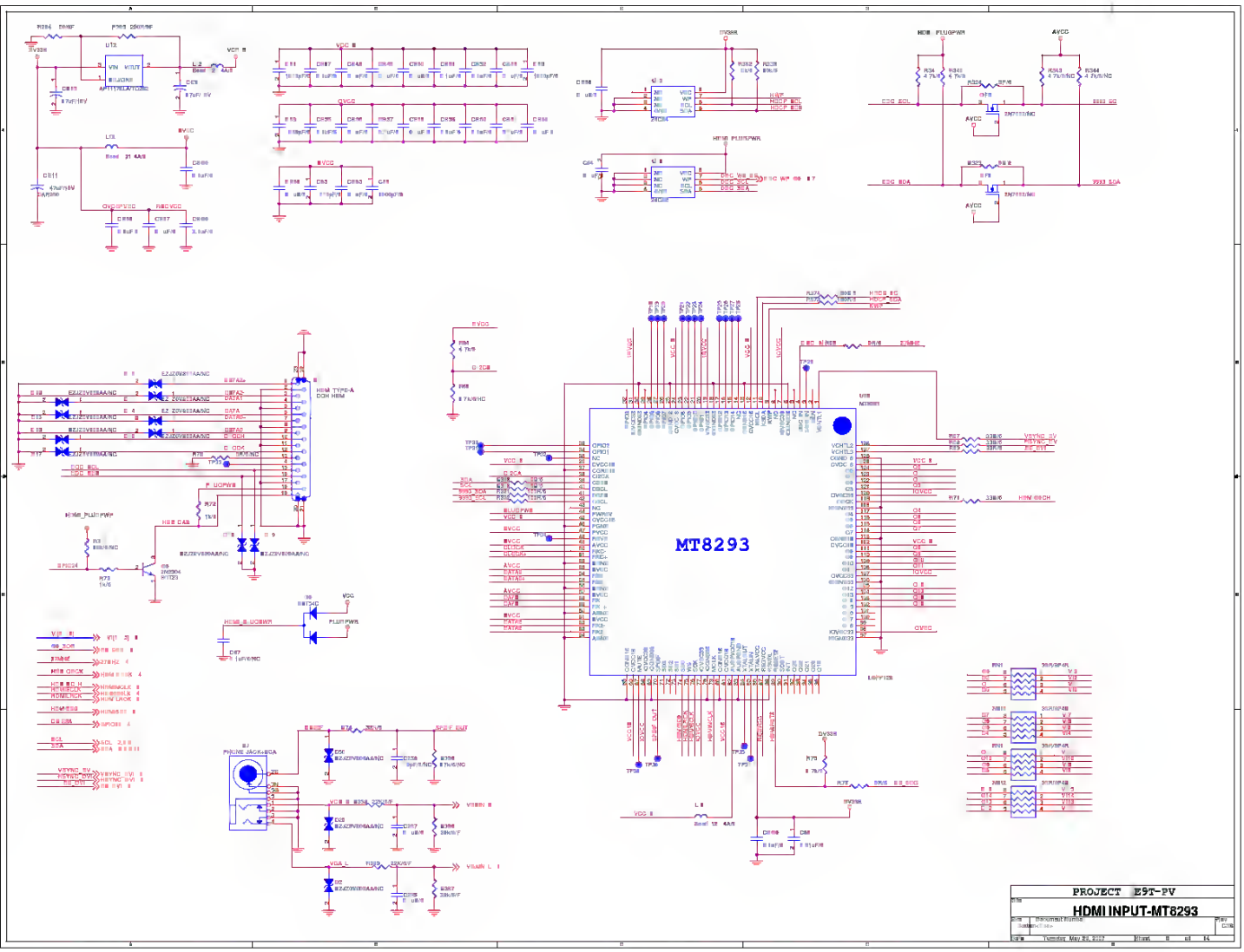

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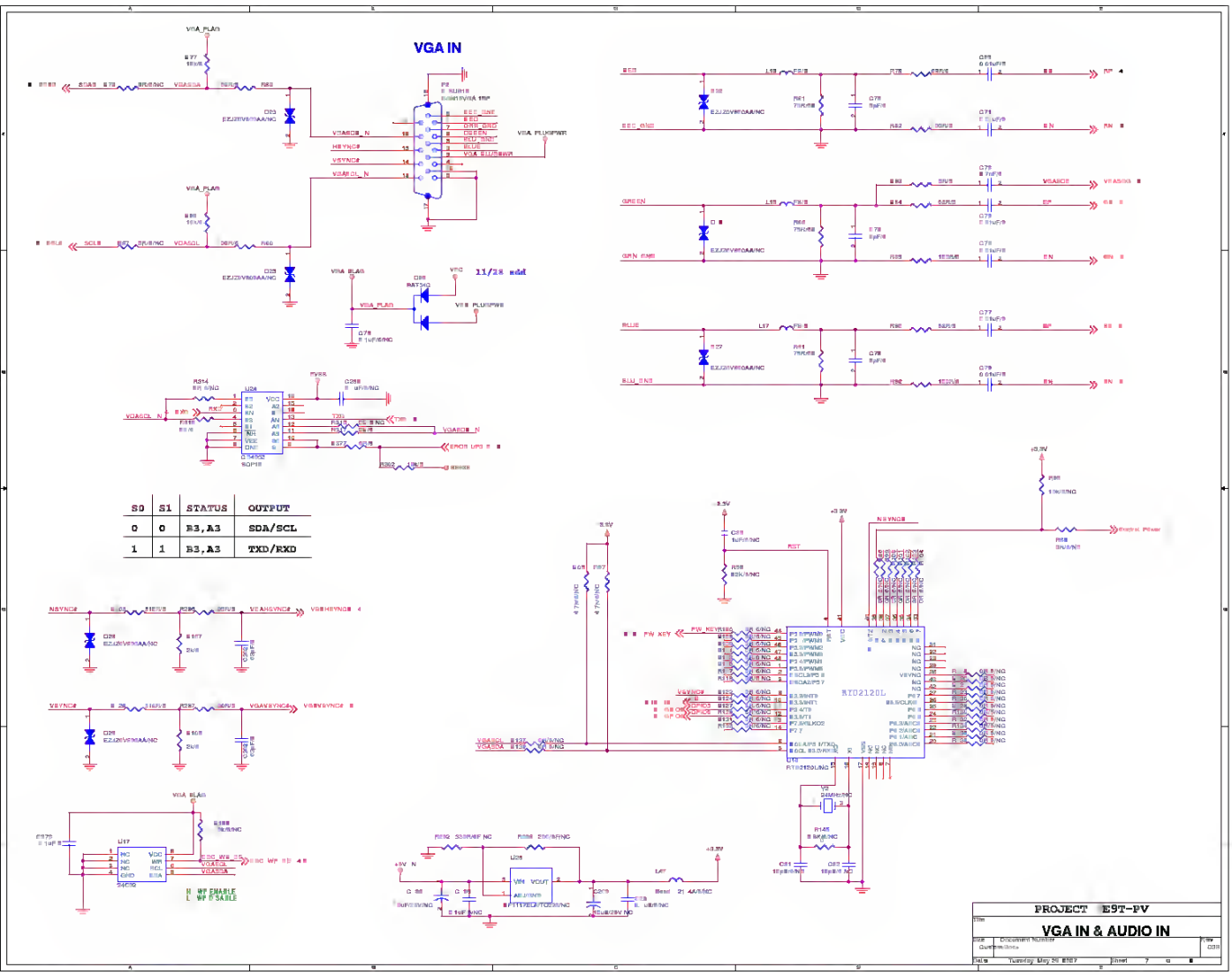

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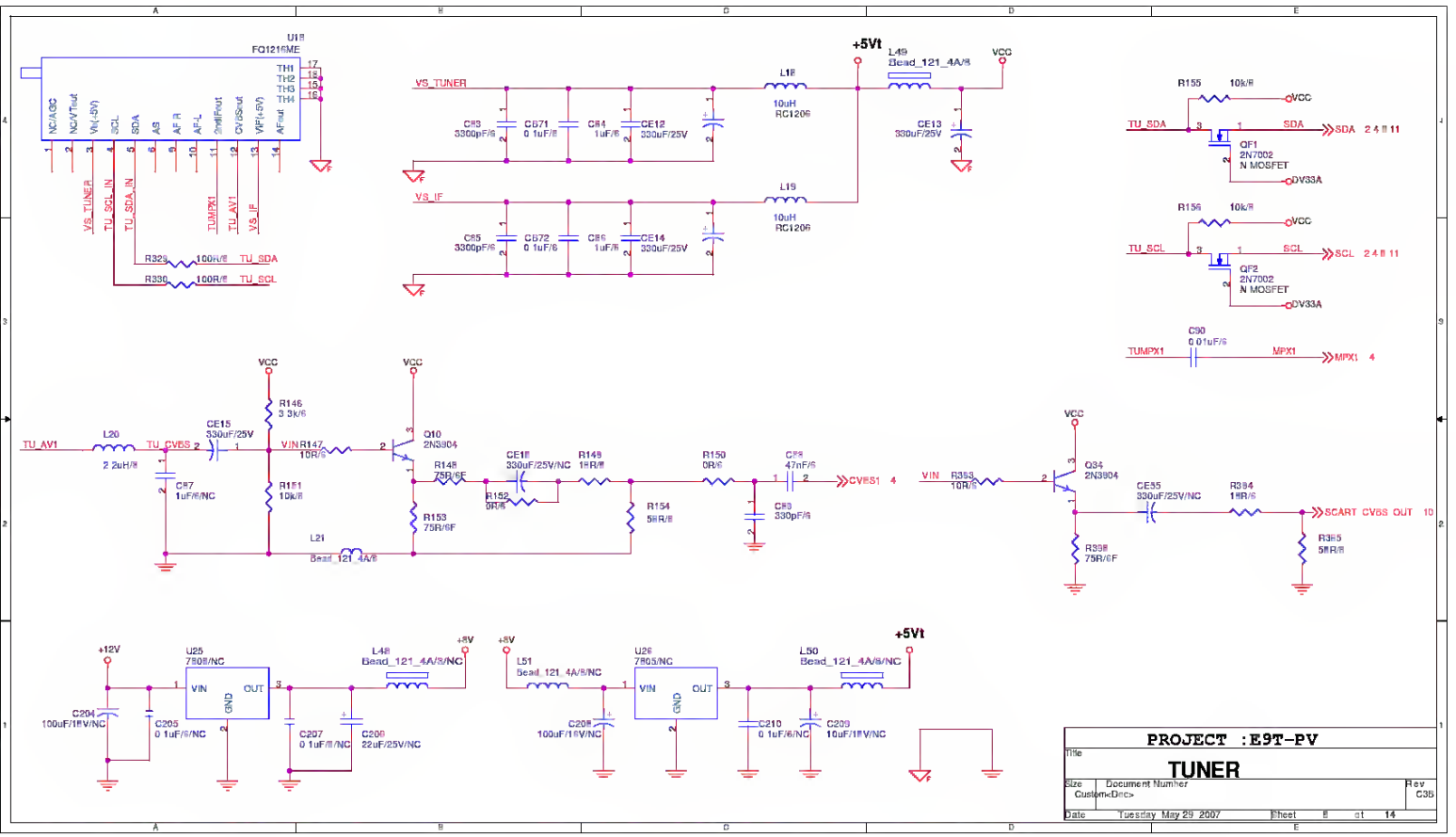

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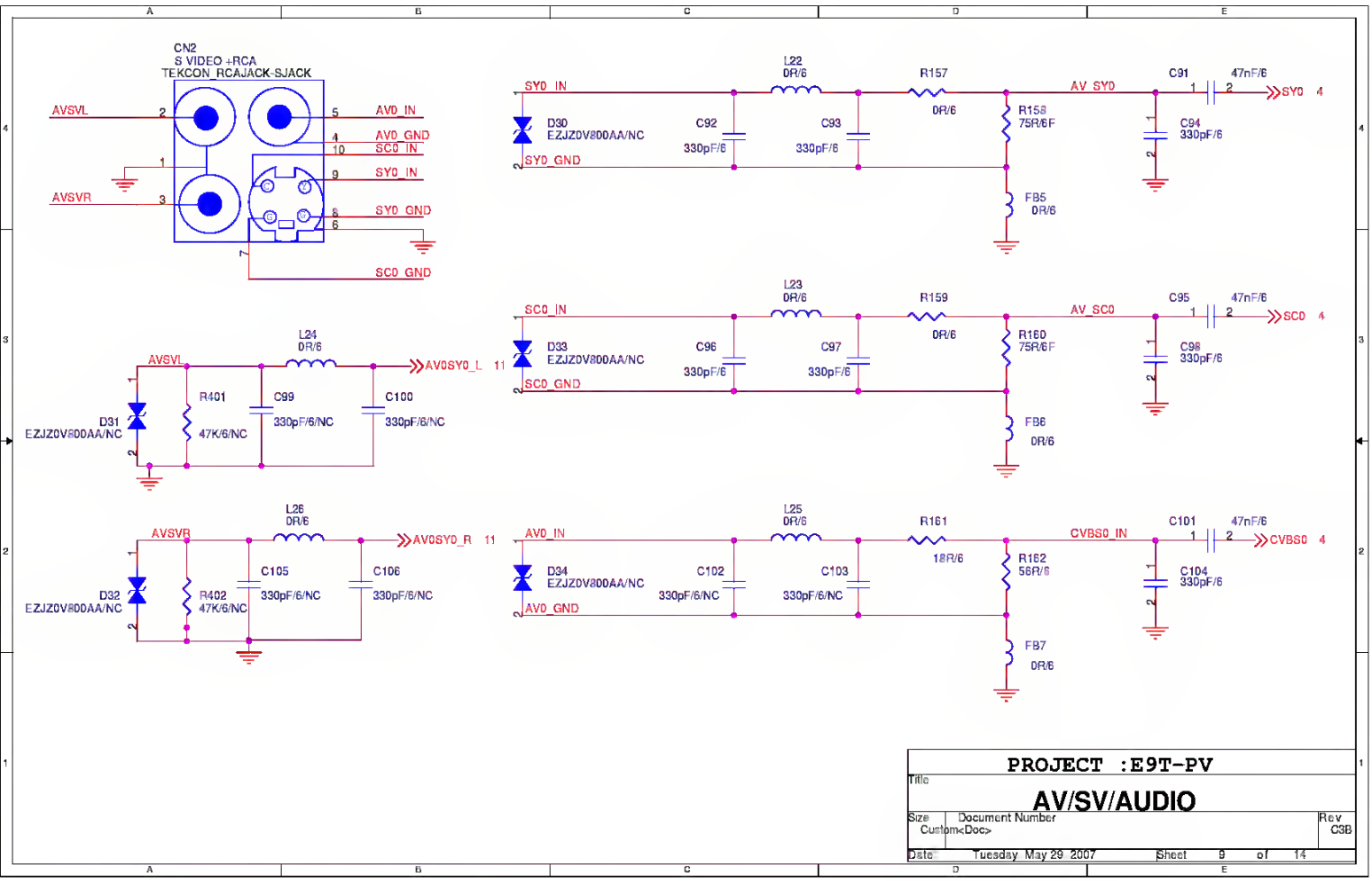

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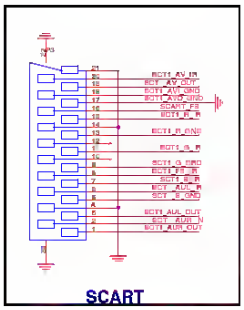
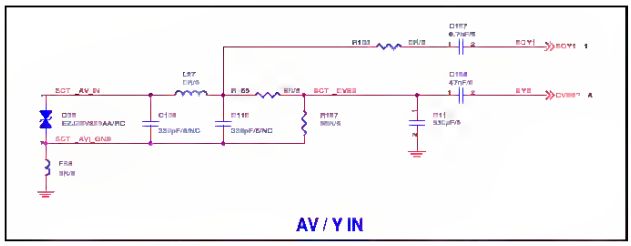
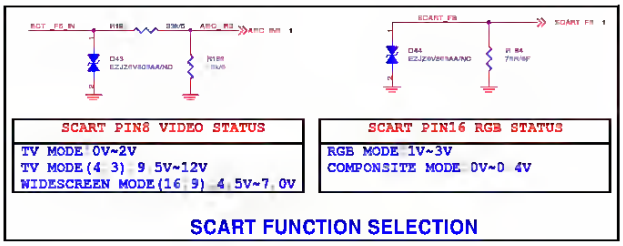
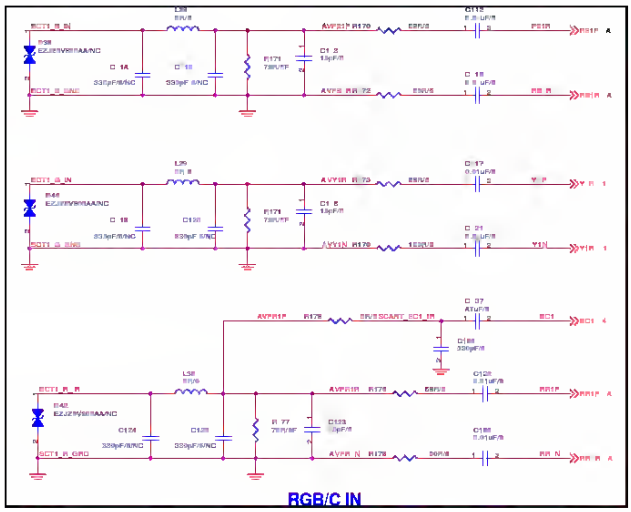
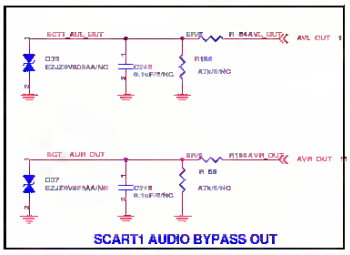
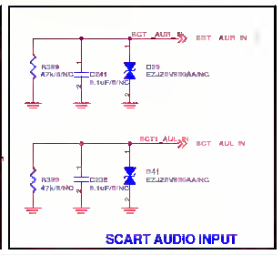


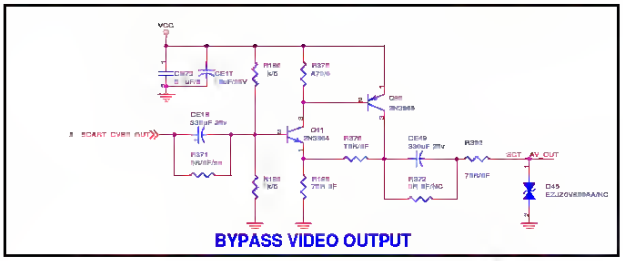



SCART PIN8 VIDEO STATUS
TV MODE 0V~2V
TV MODE(4 3) 9 5V~12V
WIDESCREEN MODE(16 9) 4 5V~7 0V
SCART PIN16 RGB STATUS
RGB MODE 1V~3V
COMPONSITE MODE 0V~0 4V
SCART FUNCTION SELECTION









PROJECT :E9T-PV

SCART FULL FUNCTION

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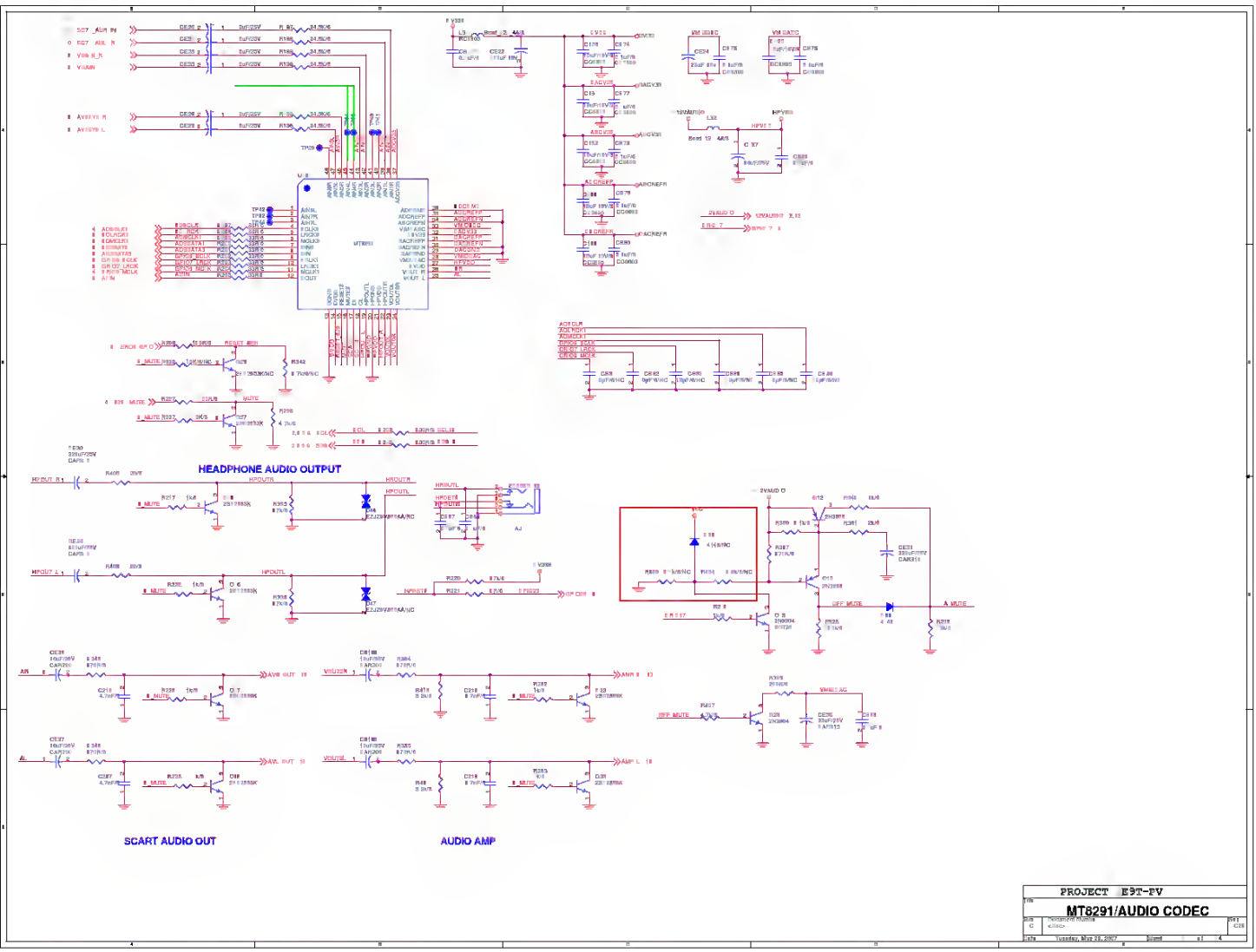

PROJECT E9T-FV

MT8291/AUDIO CODEC

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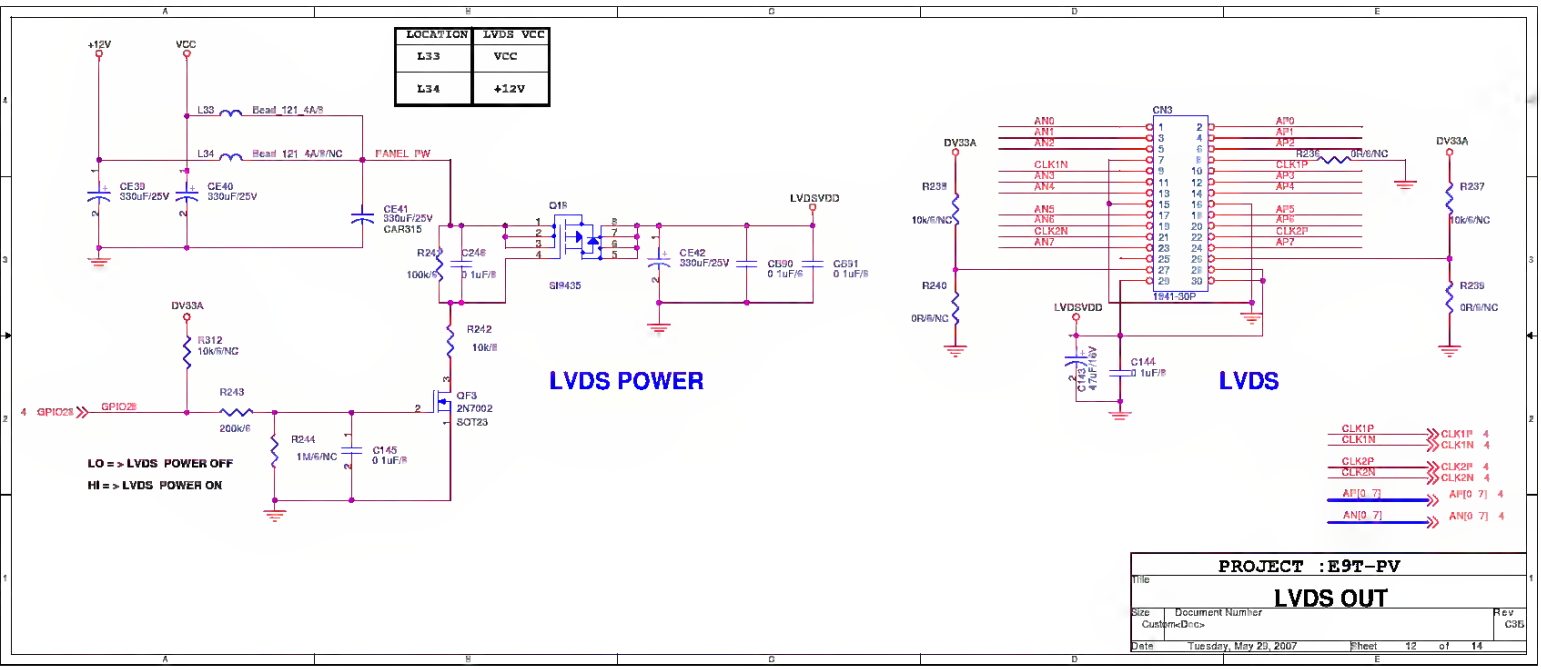

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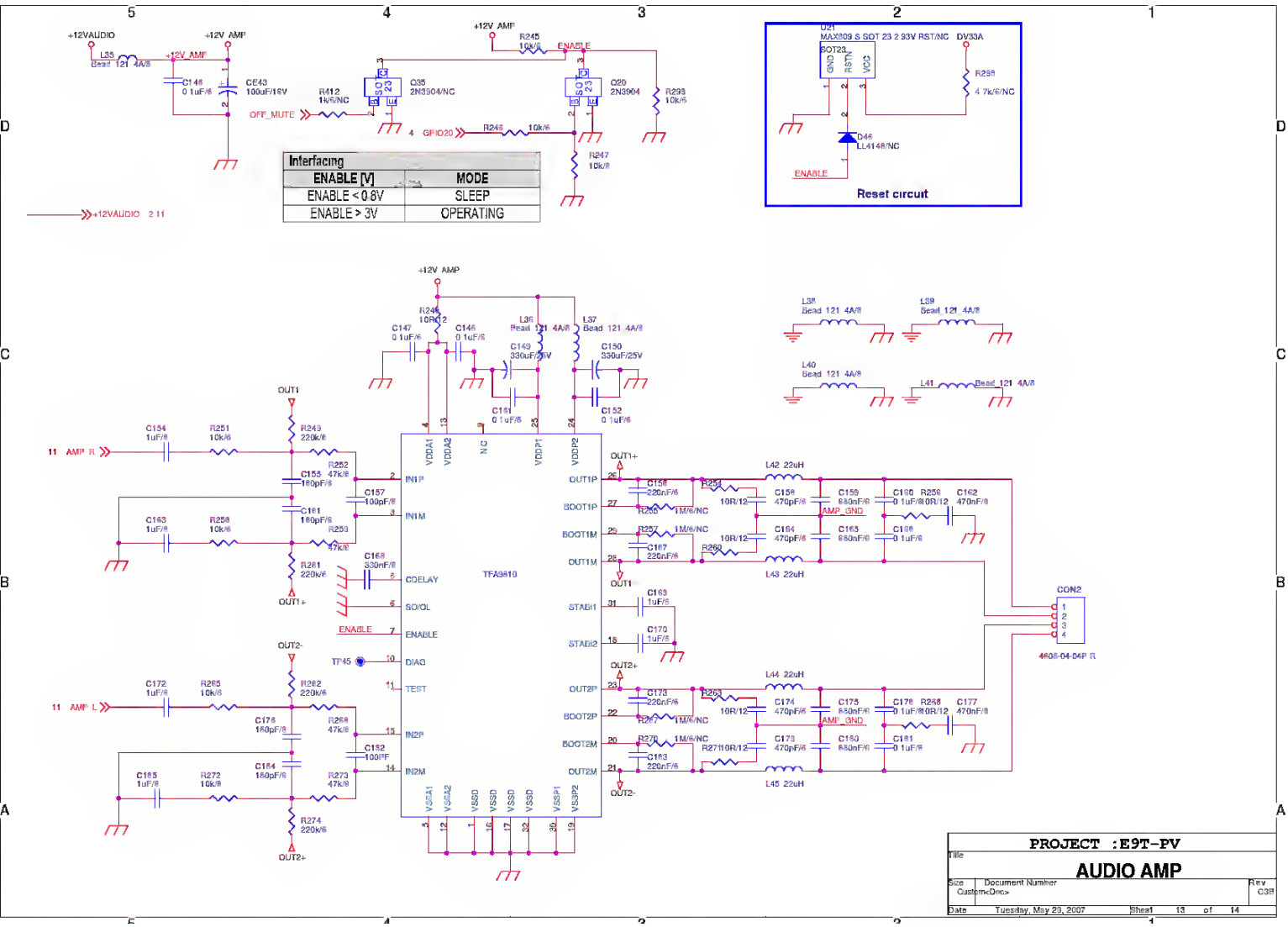

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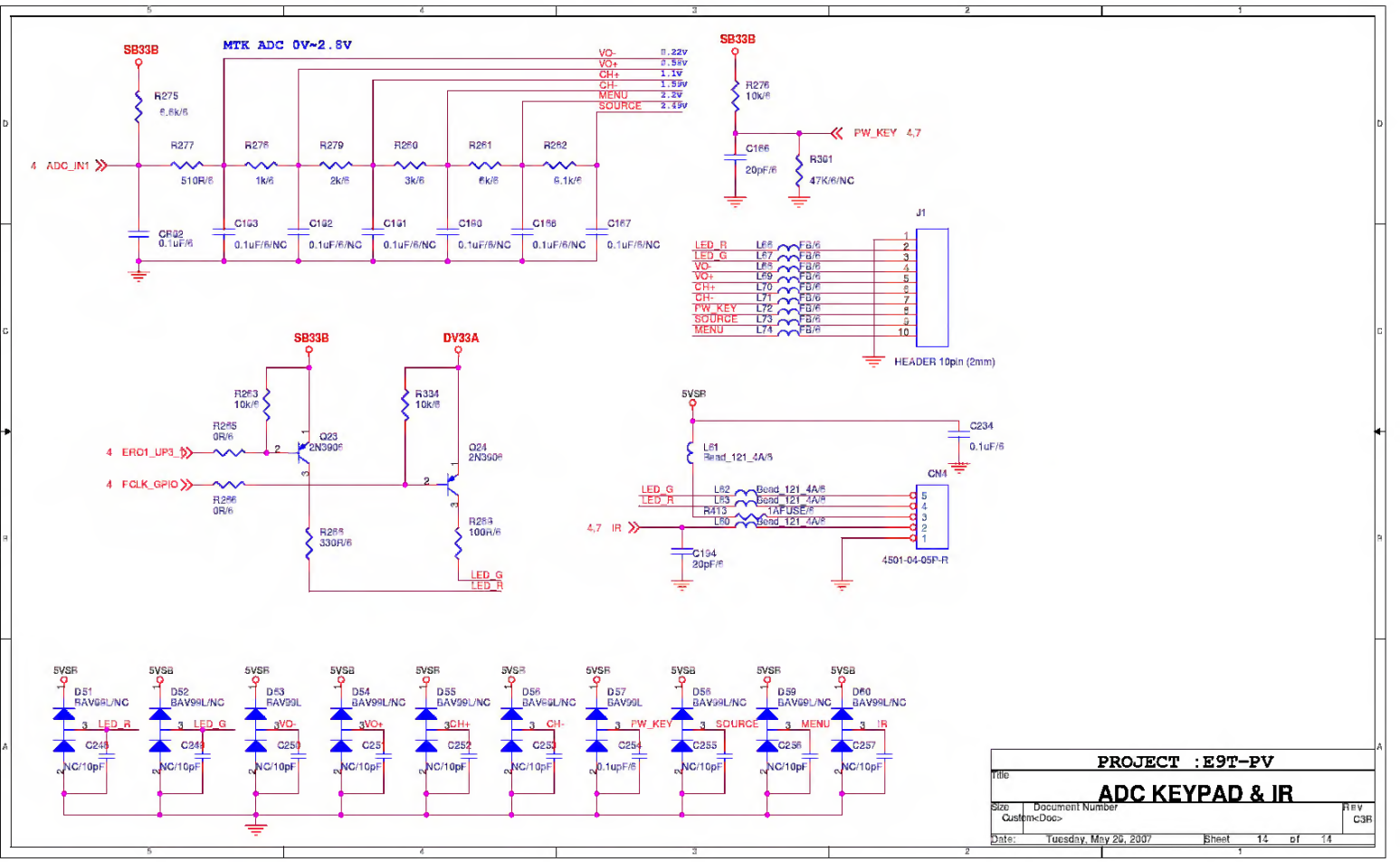

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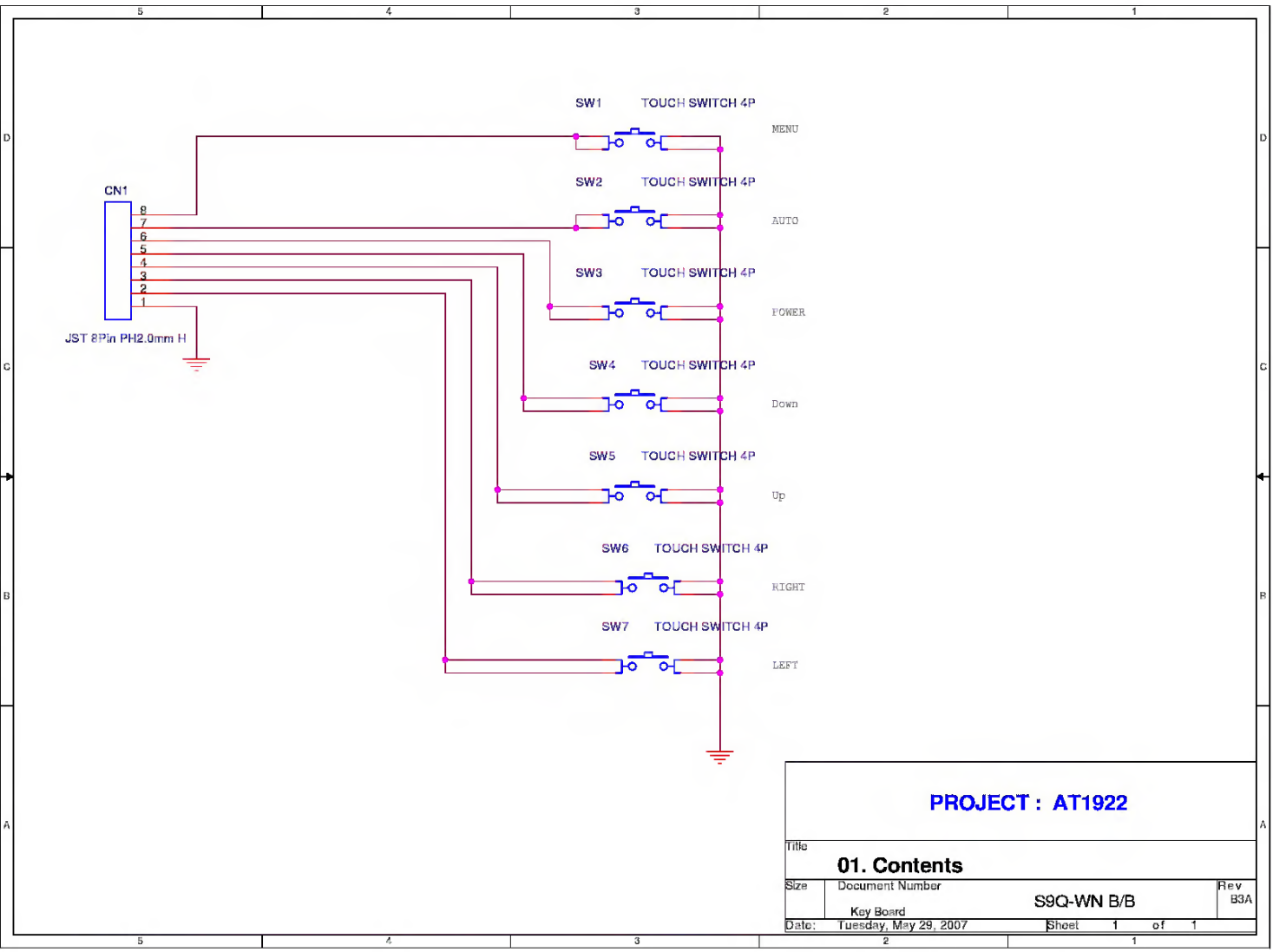

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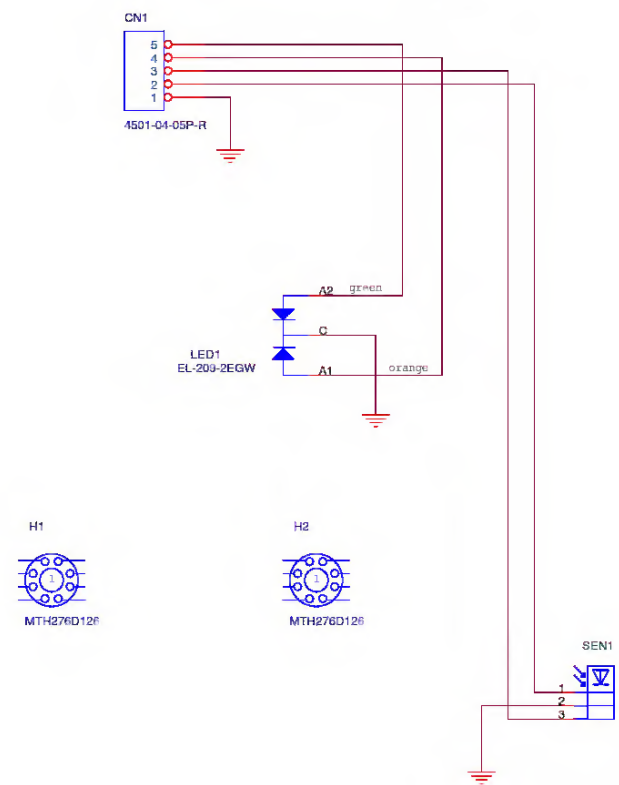

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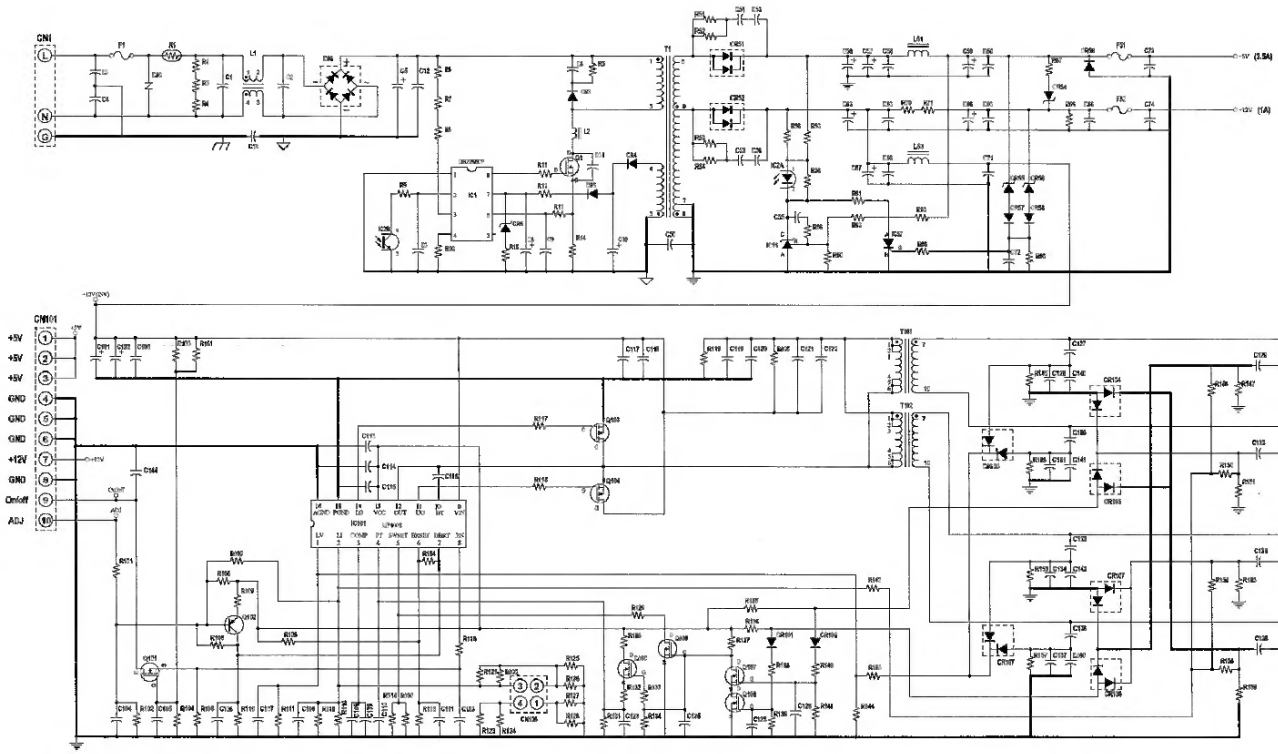

No.	圖號・DWG.No.	名稱・NAME	數QU.	材 質・MATERIAL	處 理・TREATMENT	備 考・REMARK
設計・DESIGN		Sonia Chiu	日期 DATE	MAY/05/07	名稱 TITLE	SCHEMATIC DIAGRAM
製圖・DRAWING		Wendy Chiu	日期 DATE	Apr./27/07	型式 MODEL	TBD432AR
檢圖・CHECKED			日期 DATE	/ /	比例 SCALE	※
承認・APPVD			日期 DATE	5/4/07	單位 UNIT	※
承認・APPVD			日期 DATE	/ /	第三角法 THIRD ANGLE PROJECTION	

版次 REV	日期 DATE	設計 DSGN	內 容・DESCRIPTION	承認 APV
			台TDK.台灣東電化股份有限公司 TDK TAIWAN CORP.	

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